



May 31 – June 2, Oslo Spektrum  
10th anniversary

# Endpoint Manager Community Tools



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

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## Ronni Pedersen

- Cloud Architect, APENTO
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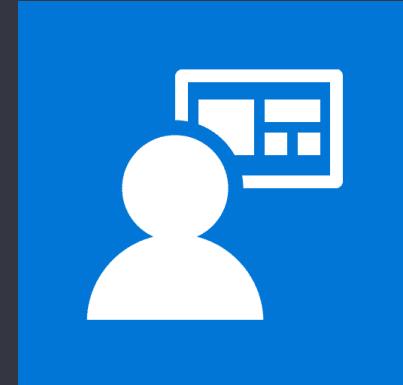
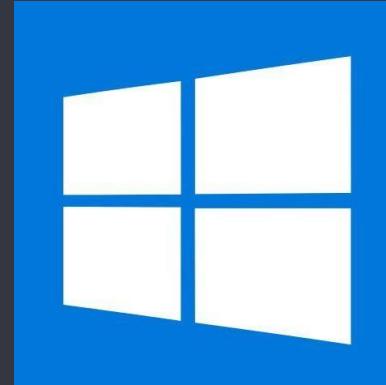
## Contact Info

- Mail: [rop@apento.com](mailto:rop@apento.com)
- Twitter: [@ronnipedersen](https://twitter.com/ronnipedersen)



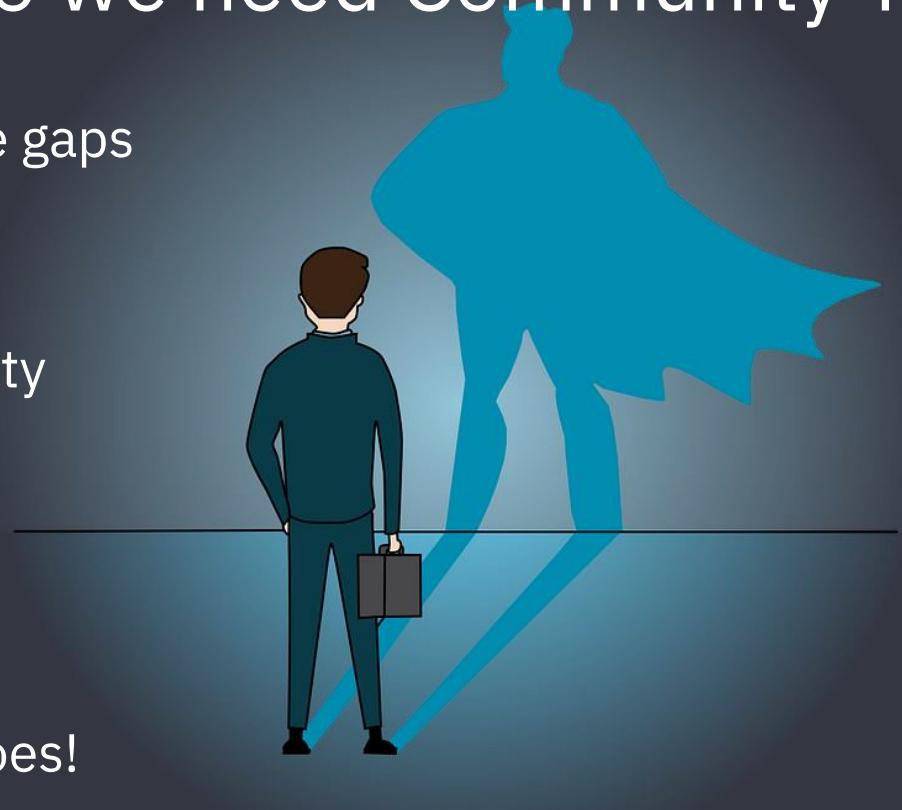
# Takeaways

- The Endpoint Manager Community Toolbox



# Why do we need Community Tools?

- Fill the feature gaps
- Save Time
- Automation
- Increase quality



They are our heroes!

# Endpoint Manager Community Tools

Microsoft Intune (Cloud native)

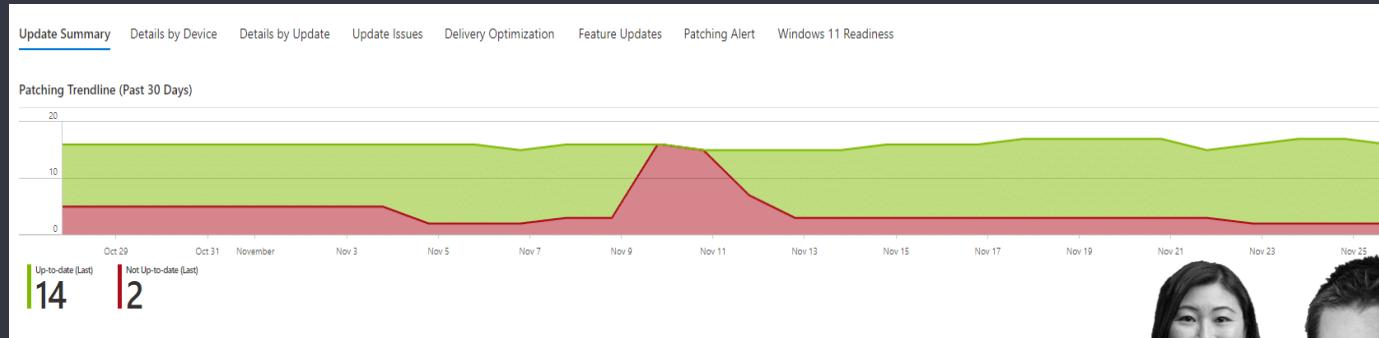
# DCToolbox

- PowerShell Module
    - Microsoft 365 Security
    - Conditional Access
    - And more...

<https://danielchronlund.com/2020/11/09/dctoolbox-powershell-module-for-microsoft-365-security-conditional-access-automation-and-more/>

# Windows Update Compliance Workbook

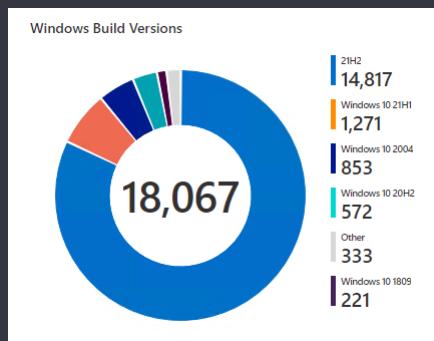
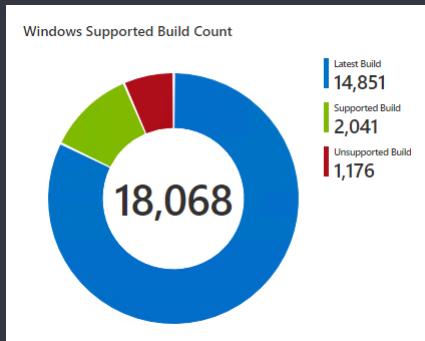
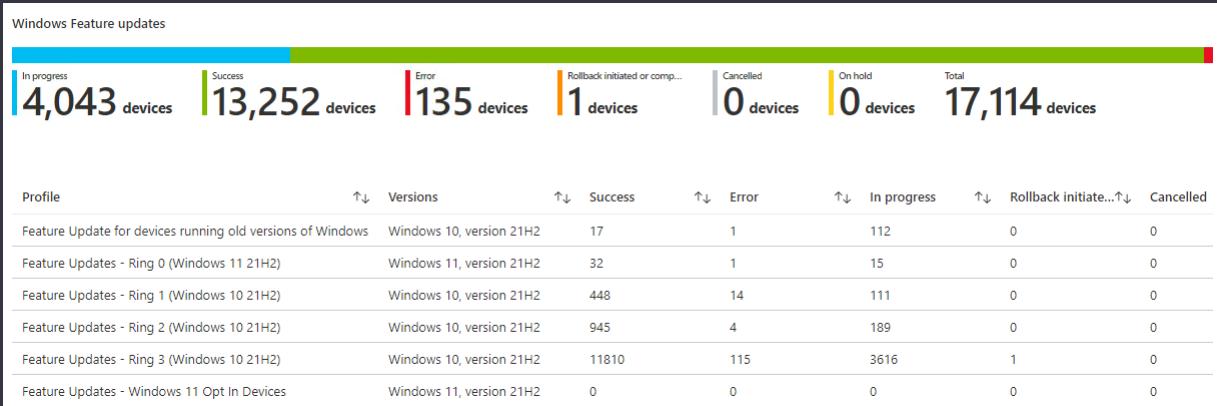
- Update Compliance Dashboard
- Breakdown of Windows OS patching
- Insights on Errors, Safehold issues and Delivery Optimization
- Windows 11 Readiness Status



<https://msendpointmgr.com/2021/11/26/windows-update-compliance-workbook-community-edition/>



# Customer Example



Windows 11 Readiness Scan Status by Manufacturer

Manufacturer	Capable	NotCapable	Unknown
TOSHIBA	0	649	13
Xen	0	1129	773
Dell Inc.	10706	1639	814
Alienware	1	0	0
Microsoft Corporation	7	1	0
OEM	0	1	0
VMware, Inc.	0	3	0

# Intune Device Details GUI

- Shows relevant device info
- Targeted apps and configuration profiles
- Including how Apps and Configuration Profiles are targeted
- Autopilot information

The screenshot displays the IntuneDeviceDetails GUI application window. At the top, it shows the device connected as 'W10AAD1'. The main interface includes sections for device basic info, recent check-ins, latest checked-in user group memberships, application assignments, and configuration assignments. A detailed JSON pane on the right provides a breakdown of the device's configuration and primary user information. The bottom of the window indicates the last update was on 2022-05-29 at 19:47:37.

Connected as: W10AAD1

Showing information from device W10AAD1

Basic info only (Skip Apps)

Unknown assignments found. Reload cache and run report.

1. Search devices  
2. Create report

Found 10 devices

Windows 11 21H2 Ent. compliant

Windows Autopilot enrolled: True GroupTag

Language: en-US isEncrypted: True

Storage: 34GB / 79GB Last Sync: 10 days ago

Ethernet MAC: 00155D0104127 Primary User: Jane@demiranda.nu

Recent check-ins: Jane@demiranda.nu 2022-05-18 17:38:25

Latest Checked-In User Group Memberships

Device Group Memberships	Primary User Group Memberships
All Devices	CM-Google Chrome Installed
Autopilot - Standard Convert	Edge Kiosk
Intune - MS Security baseline check	Intune Office Apps - Req

Application Assignments

context	Application type	displayName	version
User win32lobjApp	Google Chrome	88.57.1	
User microsoftStoreForBusinessApp	GoToMeeting		
User win32lobjApp	Install-Language-Languagev5-SE.ps1	1.0.211	
User win32lobjApp	LSWatermark		
User officeSuiteApp	Microsoft 365 Apps - Visio		
User officeSuiteApp	Microsoft 365 Apps for Windows 10 and later		
User windowsMobileMSI	PWInfo	1.0.182	

Configurations Assignments

Device	Configuration type	displayName
Device Settings Catalog	ASR	Jane@...
Device Settings Catalog	ASR	Jane@...
Device Microsoft Defender for Endpoint	ATP	Jane@...
Device BitLocker	Bitlocker	Jane@...
Device Custom	Disable Internet Explorer standalone	Jane@...
Device Windows health monitoring	Intune data collection policy	Jane@...
Device Trusted certificate	Root Certificate	Jane@...

Device details updated 2022-05-29 19:47:37

Primary User: Jane@demiranda.nu

userPrincipalName : Jane@demiranda.nu accountEnabled : True displayname : Jane Doe userEnabled : True userPrincipalName : Jane@demiranda.nu email : Jane.Doe@demiranda.nu userType : Member mobilePhone : jobTitle : department : companyname : employeeId : employeeType : streetAddress : postalCode : state : country :

Author: https://github.com/petripaavola/IntuneDeviceDetailsGUI

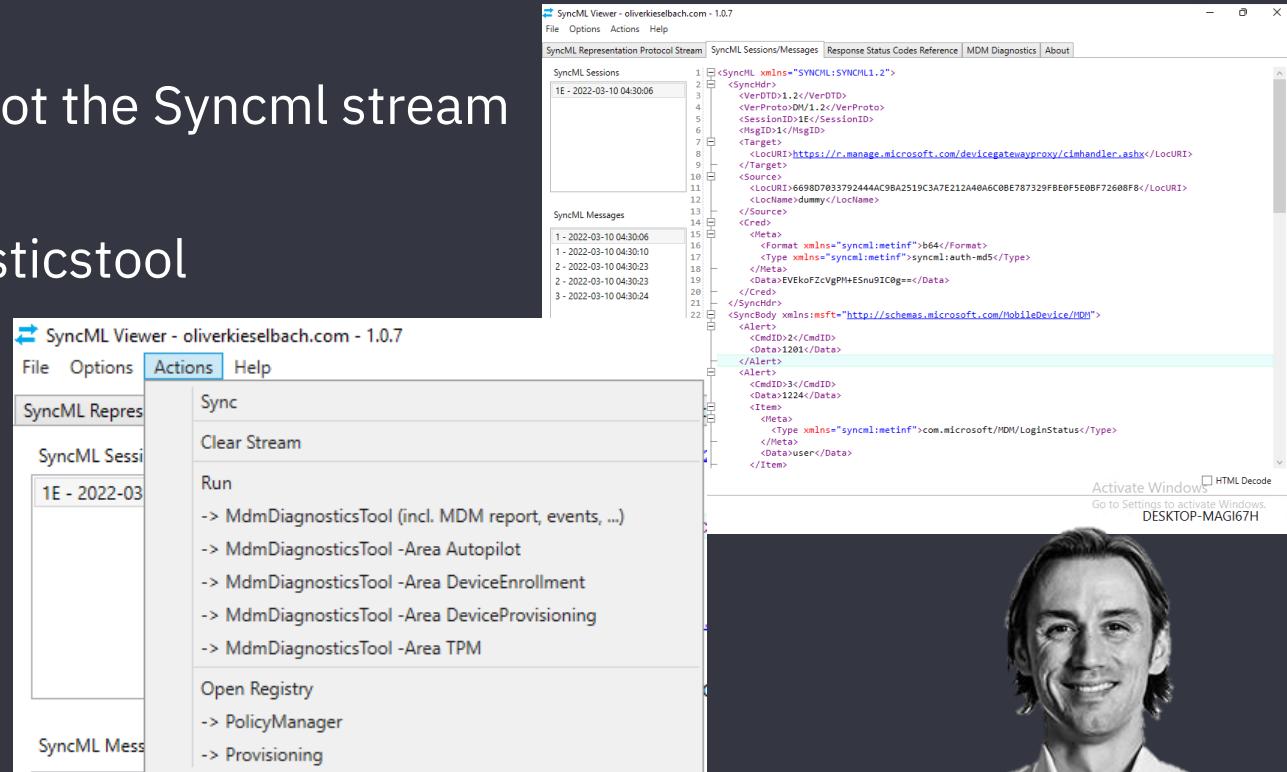
microsoft MVP  
MVP

NIC X edition

<https://github.com/petripaavola/IntuneDeviceDetailsGUI>

# SyncMLViewer & Intune TS tool

- Easily troubleshoot the Syncml stream
- MDM Sync
- Run MMDiagnosticsTool
- Open registry



<https://github.com/okieselbach/SyncMLViewer>

# Intune debugging

Show apps for redeploy

Filter

Add criteria ▾

Scope	DisplayName	Id	LastUpdatedTimeUtc	ProductVersion	LastError	Scopeld
Device	Remote Help	2043db9d-f484-4b49-9709-fd79f0555a78	2022-05-19 10:43:56	0	00000000-0000-0000-0000-000000000000	
Device	Universal Print Printer Provisioning	238ec4cc-5901-4fa9-9edc-bfd70945d743	2022-05-19 10:43:56	0	00000000-0000-0000-0000-000000000000	
Device	Zoom Client for meetings	43cf39ee-1d49-45c8-8778-dd019599ddb6	2022-05-19 10:43:56	0	00000000-0000-0000-0000-000000000000	
Device	CMTrace	50d65d25-45b4-44e7-898e-cf992e19083b	2022-05-19 10:43:56	0	00000000-0000-0000-0000-000000000000	
Jane@demiranda.nu	Remote Help	2043db9d-f484-4b49-9709-fd79f0555a78	2022-06-01 09:22:26	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	Universal Print Printer Provisioning	238ec4cc-5901-4fa9-9edc-bfd70945d743	2022-06-01 09:22:26	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	Google Chrome	272ff829-30da-4247-b21d-2d6fa0dfa739	2022-05-01 10:26:23	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	Zoom Client for meetings	43cf39ee-1d49-45c8-8778-dd019599ddb6	2022-06-01 09:22:26	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	CMTrace	50d65d25-45b4-44e7-898e-cf992e19083b	2022-06-01 09:22:26	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	ConfigureChatAutoInstall	52a1f70a-741d-4317-9a4a-045846c6cb90	2022-06-01 13:18:03	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	
Jane@demiranda.nu	RemoveApps	ddfc9e19-1718-47df-bd2e-0c7a8ad336e6	2022-06-01 13:18:03	0	dfb2446d-79a0-4752-bdfc-64fa0624f275	

<https://github.com/mmelkersen/EndpointManager/tree/main/Intune%20Debug%20Tools>

Mattias Melkersen  
Microsoft MVP



# CloudLAPS Community Edition



CloudLAPS Home Search Privacy

rop@apento.com Sign out



CloudLAPS Home Search Privacy

## Search for local administrator password

For physical devices, specify the serial number of a device.  
For virtual machines, specify the computer name instead.

Search for:

### Search for local administrator password

For physical devices, specify the serial number of a device to retrieve the local administrator password.  
For virtual machines, specify the computer name instead.

Search for:

Computer name:	TABLET-HR0R49UN
Serial number:	0B337
User name:	LocalAdmin
Password:	rwQG-CNLCAc@G?5(
Last update:	3/14/2022 7:53:57 PM +00:00

- Native Azure AD Solution
- Rotating the passwords
- Powered by Proactive Remediation
- Access to Passwords through a web-based portal

<https://msendpointmgr.com/cloudlaps/>

Nickolaj  
Andersen  
Microsoft MVP



nicX edition

# CloudLAPS guide on YouTube

- Part 1: Getting Started with CloudLAPS
- Part 2: CloudLAPS Demo and Admin Experience
- Part 3: CloudLAPS Update! - Upgrade experience walkthrough



Dean Ellerby  
Microsoft MVP

<https://www.youtube.com/channel/UCvGu4AIoZxB0NV7o-yUuQ2A>



# Lightweight LAPS Solution for Intune (LeanLAPS)

- Manages Local Admin Password
- Proactive remediations
- Powershell tool

Proactive remediations ...

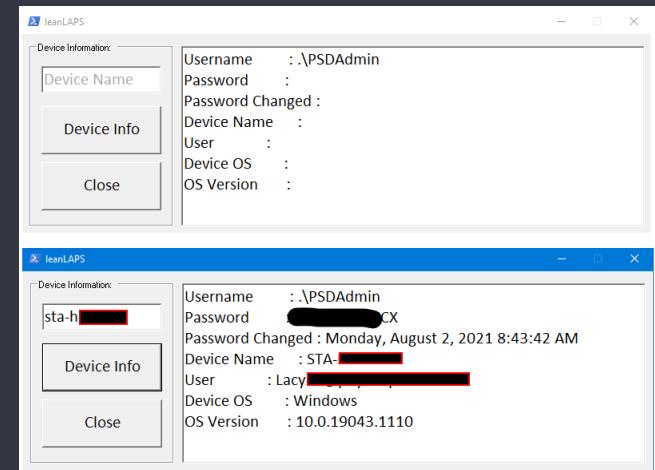
⟳ Refresh + Create script package ⚡ Columns

Your Microsoft proactive remediation scripts have successfully loaded.

Create and run script packages on devices to proactively find and fix the top support issues in your organization. Use this table to see the status of your deployed script packages and to monitor the detection and remediation results. Results are shown as number of devices affected. [Learn more](#).

Search by script package name

Script package name	Author	Status	Without issues ⓘ
Restart stopped Office C2...	Microsoft	● Not deployed	0
Update stale Group Policies	Microsoft	● Not deployed	0
LeanLAPS	Lieben Consultancy	● Not deployed	0



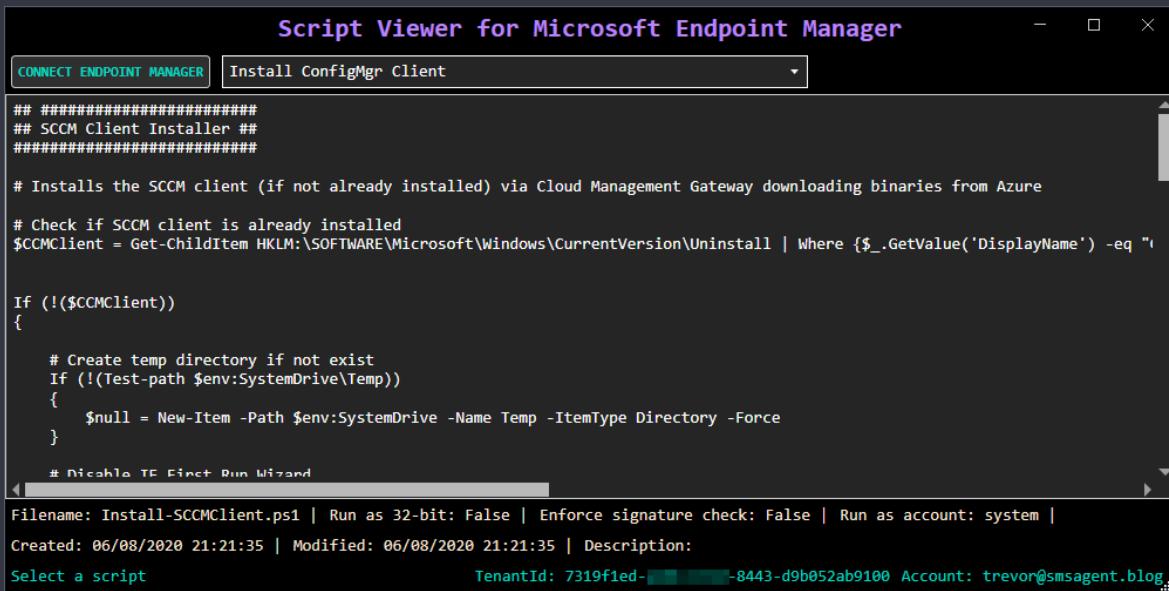
<https://www.lieben.nu/liebensraum/2021/06/lightweight-laps-solution-for-intune-mde/>



nix edition

# SCRIPT VIEWER FOR MICROSOFT ENDPOINT MANAGER

- View all your PowerShell scripts in Intune
- Great for troubleshooting



The screenshot shows a window titled "Script Viewer for Microsoft Endpoint Manager". At the top left is a "CONNECT ENDPOINT MANAGER" button. Next to it is a dropdown menu set to "Install ConfigMgr Client". The main area displays a PowerShell script:

```
## #####  
## SCCM Client Installer ##  
#####  
  
# Installs the SCCM client (if not already installed) via Cloud Management Gateway downloading binaries from Azure  
  
# Check if SCCM client is already installed  
$CCMClient = Get-ChildItem HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall | Where {$_.GetValue('DisplayName') -eq ""}  
  
If (!$CCMClient)  
{  
  
    # Create temp directory if not exist  
    If (!(Test-path $env:SystemDrive\Temp))  
    {  
        $null = New-Item -Path $env:SystemDrive -Name Temp -ItemType Directory -Force  
    }  
  
    # Disable TF First Run Wizard  
    Set-ItemProperty -Path $env:TEMP -Name TF_HasRun -Value 1 -Type DWORD -Force  
  
    # Download SCCM Client  
    $scriptPath = Join-Path $env:TEMP "Install-SCCMClient.ps1"  
    Invoke-WebRequest -Uri "https://raw.githubusercontent.com/trevorwms/Install-SCCMClient/master/Install-SCCMClient.ps1" -OutFile $scriptPath  
    & $scriptPath  
}  
  
# Clean up temporary files  
Remove-Item -Path $env:TEMP\Install-SCCMClient.ps1 -Force  
Remove-Item -Path $env:TEMP\Temp -Recurse -Force
```

At the bottom of the window, there is metadata:

Filename: Install-SCCMClient.ps1 | Run as 32-bit: False | Enforce signature check: False | Run as account: system |  
Created: 06/08/2020 21:21:35 | Modified: 06/08/2020 21:21:35 | Description:  
Select a script TenantId: 7319f1ed-████████-8443-d9b052ab9100 Account: trevor@smsagent.blog...

# Intune & Azure AD Conditional Access

## Automatic Documentation

- Automatic Intune and Conditional Access Documentation to simplify the life of admins and consultants.
  - Configuration Policies
  - Compliance Policies
  - Device Enrollment Restrictions
  - Terms and Conditions
  - Applications (Only Assigned)
  - Application Protection Policies
  - AutoPilot Configuration
  - Enrollment Page Configuration
  - Custom Roles



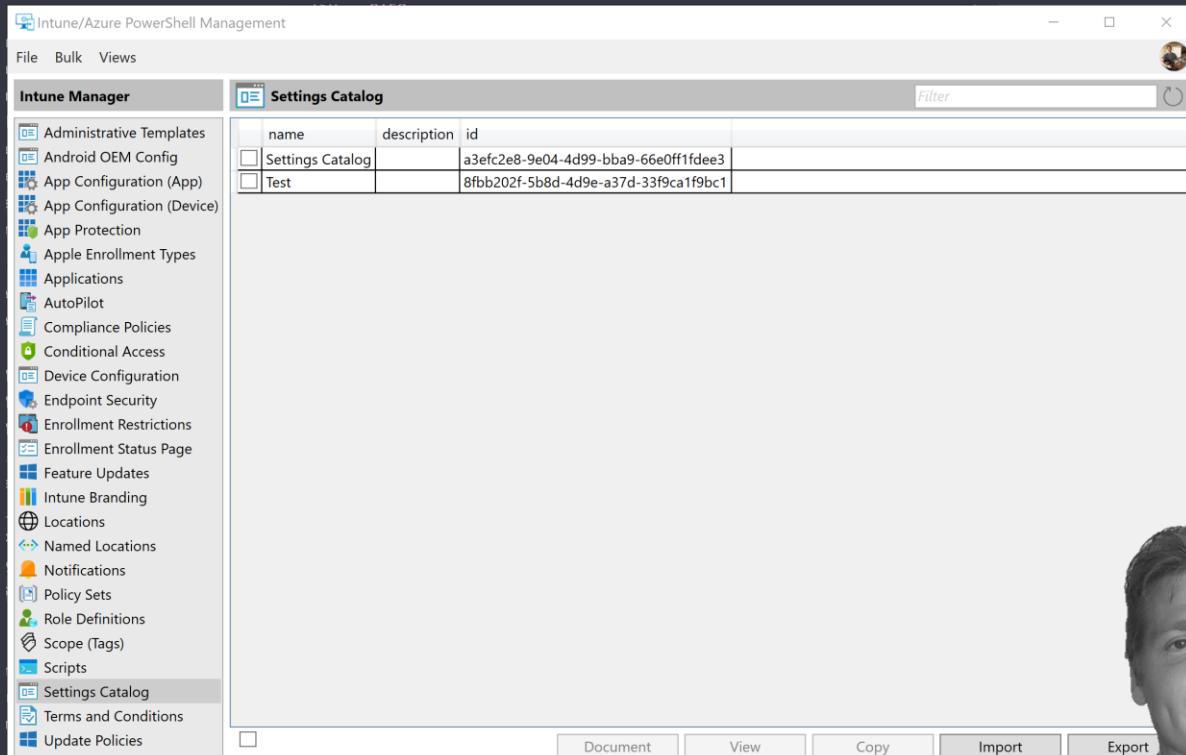
<https://github.com/ThomasKur/IntuneDocumentation>



# Micke-K Intune Management

- Copy
- Export
- Import
- Backup
- Duplicate
- Compare
- Document
- Delete

and much more!



The screenshot shows the 'Intune Manager' interface with the 'Settings Catalog' selected in the left sidebar. The main pane displays a table with two entries:

name	description	id
Settings Catalog		a3efc2e8-9e04-4d99-bba9-66e0ff1fdee3
Test		8fbdb202f-5b8d-4d9e-a37d-33f9ca1f9bc1

At the bottom of the interface, there are buttons for 'Document', 'View', 'Copy', 'Import', and 'Export'.

<https://github.com/Micke-K/IntuneManagement>



# Intune Drive Mapping Generator

Generates Intune Ready PowerShell scripts

- Map file shares
- Create a Scheduled Task
- No scripting skills required
- Walkthrough video

Intune Drive Mapping Generator   Generator   Documentation

## Intune Drive Mapping Generator

Generate Intune ready PowerShell scripts to map file shares on Windows 10 clients. Without scripting effort.

0. (Optional) Export your existing group policy configuration which contains the network drive configuration to an xml file
1. Upload the configuration or generate a new one from scratch in the [intune-drive-mapping-generator](#)
2. Download your generated PowerShell script
3. Deploy the PowerShell script with Microsoft Intune

[Walkthrough Video by Intune Training](#)   [View this project on GitHub](#)



<https://intunedrivemapping.azurewebsites.net/>

Nicola Suter  
@nicolonsky

**nicX** edition

# Win32App Migration Tool

- Do the scoping and heavy lifting for you as you consider building Win32apps in Intune while using your ConfigMgr apps as a reference.
- Inventory ConfigMgr Applications and Deployment Types, build .intunewin files and create Win32apps directly in the MEM admin center.

	BETA	RELEASE	GA
PowerShell Module	X	X	X
Gather Application Details	X	X	X
Gather Deployment Details	X	X	X
Gather Content	X	X	X
Export Logo	X	X	X
Create .intunewin	X	X	X
Gather Application Behaviour		X	X
Gather Requirements		X	X
Gather Detection Rules		X	X
Configuration manager Console Extension		X	X
Create Win32app in Intune			X
- Populate Common Application Details			X
- Assign Application Logo			X
- Populate Install Command			X
- Populate Uninstall Command			X
- Populate Requirements			X
- Populate Detection Rules			X

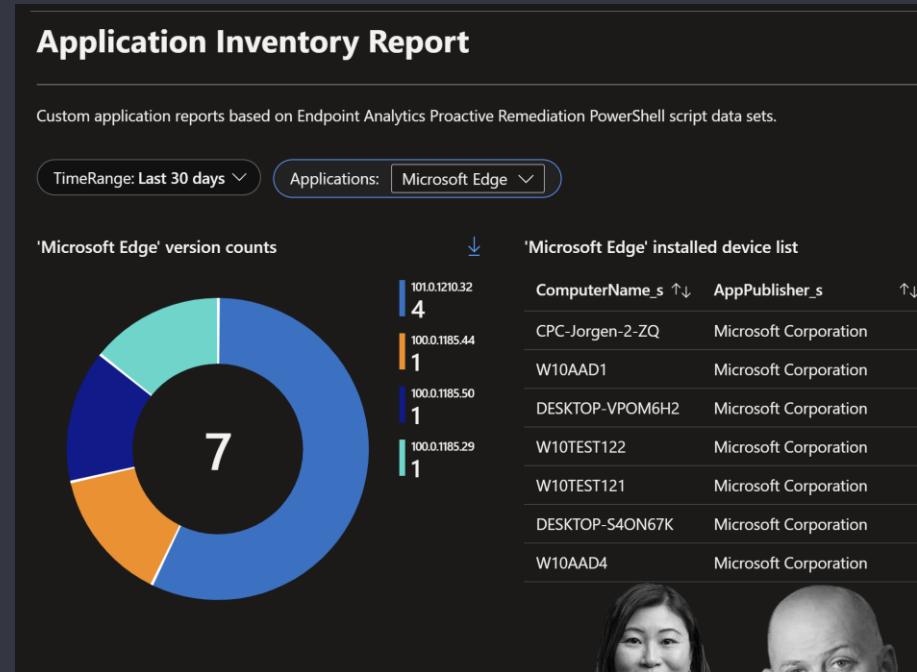
Win32 App Migration Tool Development Release Cycle



Ben Whitmore

# Enhance Intune Inventory data with Proactive Remediations and Log Analytics

- Proactive Remediation script
- Device Inventory & Application inventory
- Write information to Log analytics
- Sample Workbooks



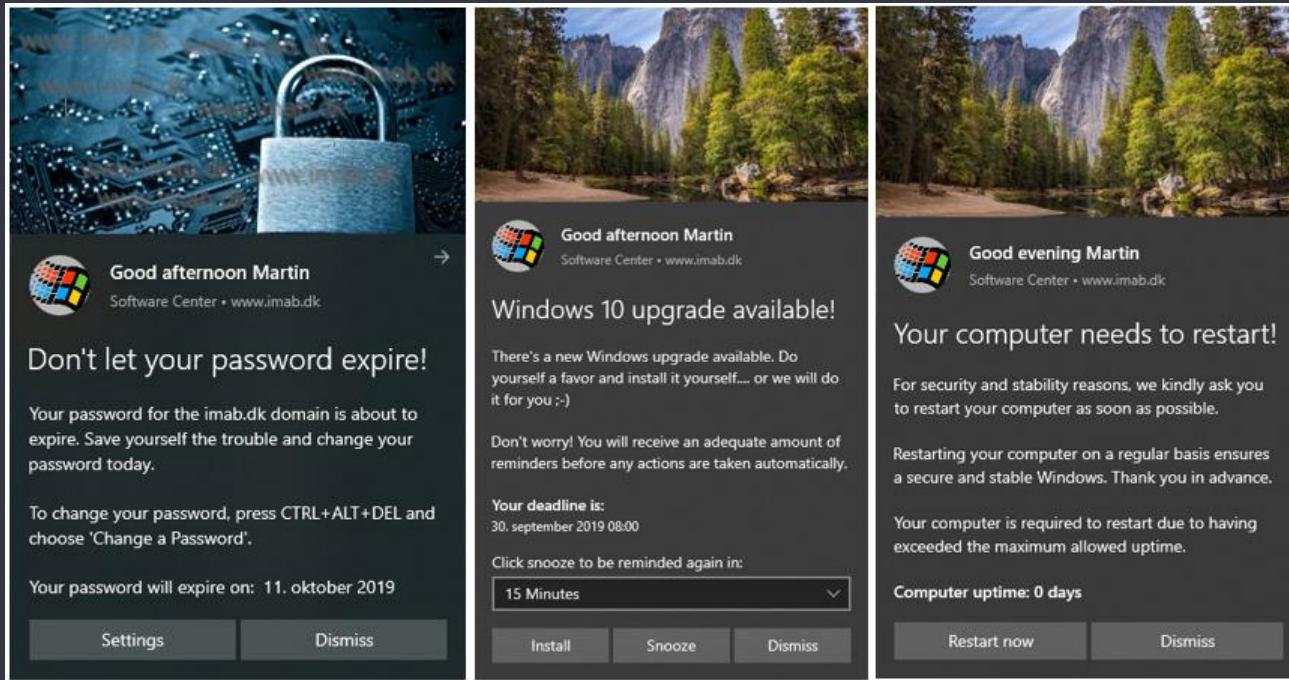
<https://msendpointmgr.com/2022/01/17/securing-intune-enhanced-inventory-with-azure-function/>



# Microsoft Endpoint Manager Community Tools

(Microsoft Intune + Configuration Manager)

# Windows 10/11 Toast Notification



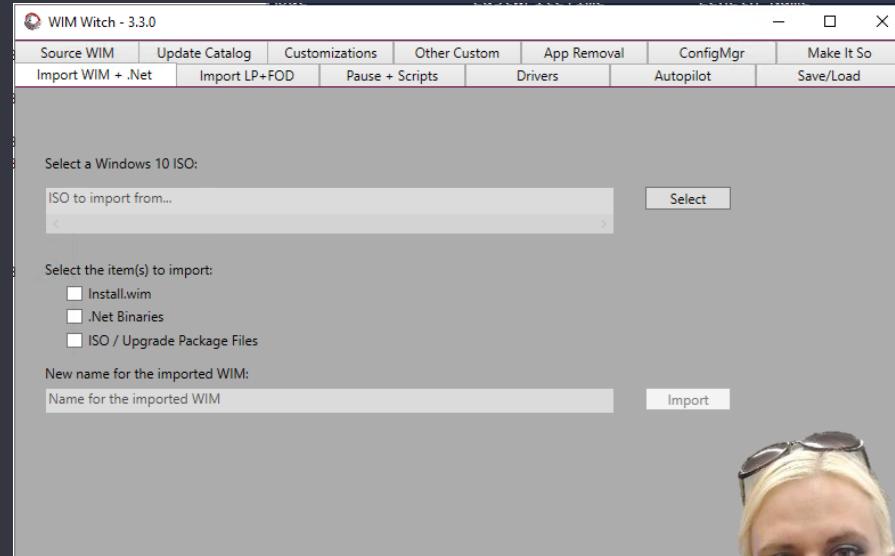
Martin Bengtsson, Microsoft MVP

<https://www.imab.dk/windows-10-toast-notification-script/>



# Wim Witch – Donna Ryan

- UI driven image customization tool
- Create/update customize .wim
- Autopilot support
- Driver support
- Language support
- Remove Built-in apps
- Add .NET Framework 3.5
- And more....

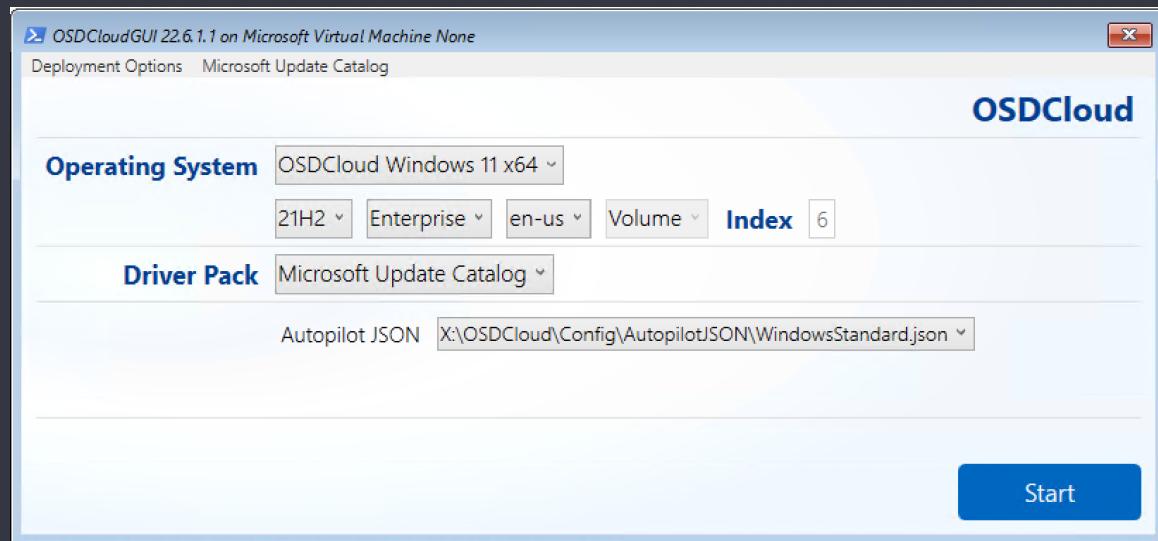


<https://msendpointmgr.com/wim-witch/>



# OSDCloud – David Segura

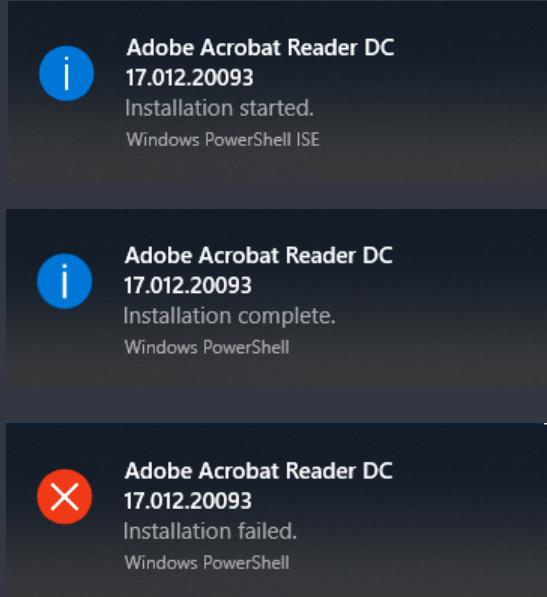
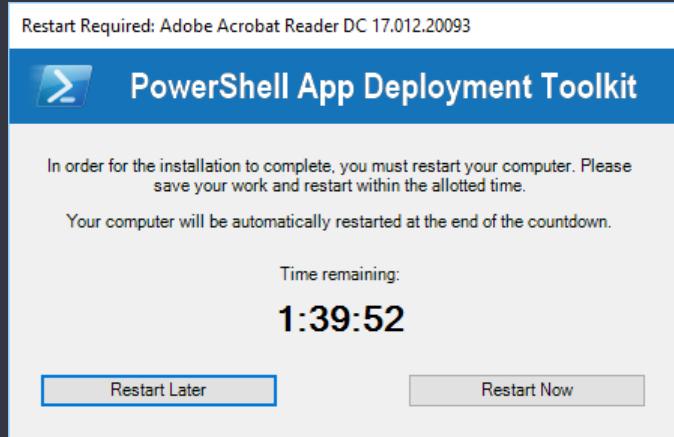
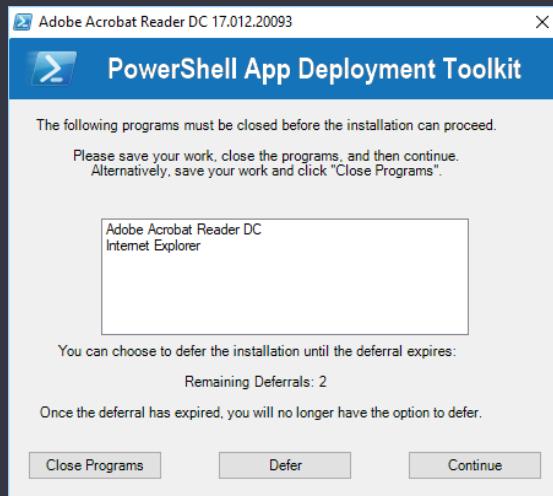
- Bootable WinPE/WinRE
- Wi-Fi support
- Add drivers for
  - Wmware
  - HP
  - Dell
  - Surface
  - ...
- Autopilot, OOBE customization.
- Downloads OS from Microsoft



<https://www.osdcloud.com/>

# PowerShell App Deployment Toolkit

- Project launched in August 2013 by Seán Lillis and Dan Cunningham

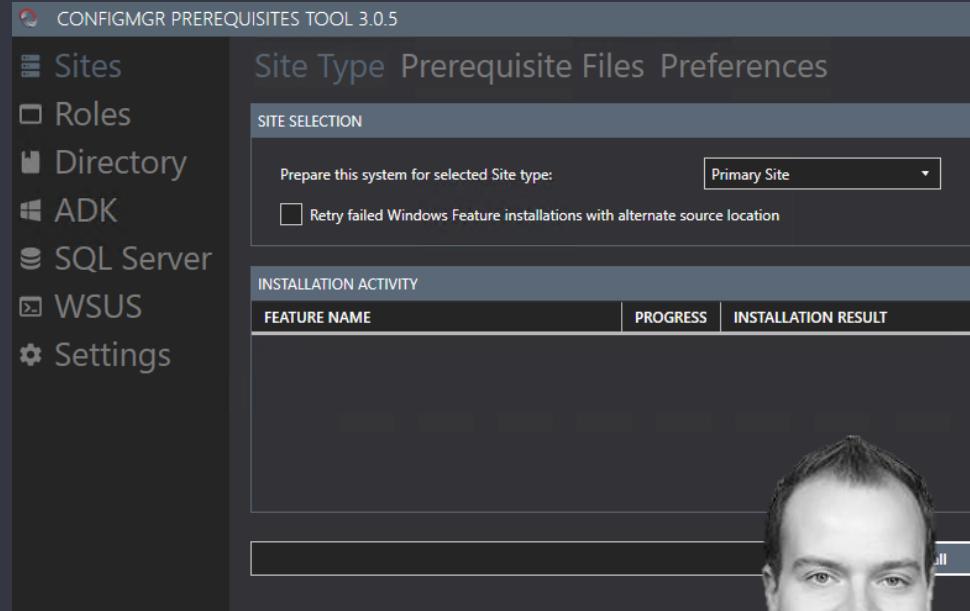


<https://psappdeploytoolkit.com/>

# Community Tools - Microsoft Endpoint Manager Configuration Manager

# ConfigMgr Prerequisites Tool

- Configuration Manager configuration
  - Roles
  - Download pre-reqs
  - ADK
- Active Directory configuration
  - Extend Schema
  - Create Container
- SQL Server configuration
  - Configure SQL Memory
  - Validate Collation
  - Pre-create DB



<https://msendpointmgr.com/configmgr-prerequisites-tool/>

# MASHPIA – Daniel Gråhns / Nicklas Eriksson

- Install HP drivers and related Software during OS Deployment or drivers update.
- Automate download of drivers, bios and software
- Create and distribute packages in Configuration Manager
- Easily update the drivers/software to the latest version automatically



```
import-models.csv - Notepad
File Edit Format View Help
ProductCode,Model,WindowsVersion
859F,HP EliteOne 800 G5 All-in-One,2009
8619,HP EliteDesk 705 G5 Desktop Mini,2009
```

<https://github.com/EGGLAS/ConfigMgr/tree/master/Driver%20Management/HPIA>

HPIA Task Sequence Editor

Add | Remove | Scope | Find | Properties | Options

**Setup Operating System**

- HPIA**
  - Hewlett-Packard Software Framework
  - Apply HPIA**
  - Restart Computer
- Second Pass**
  - Apply HPIA
  - Restart Computer

Type: Run PowerShell Script  
Name: Apply HPIA  
Description:

Select a package with a PowerShell script:  
Package:  Browse...

Enter a PowerShell script:  
Edit Script...      Script status: Script is entered.

Parameters:  
-SiteServer "sccm02.demiranda.nu" -OSVersion "20H2" -BIOSPwd "BIOSPwd.bin"

PowerShell execution policy: Bypass      Output to task sequence variable:

Start in:  Browse...

Time-out (minutes): 15

Run this step as the following account

Administrator: Windows PowerShell

```
PS E:\HP Repository> .\importHPIA.ps1
Info: Successfully loaded ConfigFile from E:\HP Repository\Config.xml
Info: HPCML was enabled to autoinstall in ConfigFile, starting to install HPCML
WARNING: The version '1.4.7' of module 'PackageManagement' is currently in use. Retry the operation after closing the applications.
Info: HPCML was successfully updated
Info: HPIA Download folder exists, no need to create folder
Info: HPIA was enabled to autoinstall in ConfigFile, starting to autoupdate HPIA
File E:\HP Repository\HPIA Download\sp112009.exe already exists, will not overwrite.
```

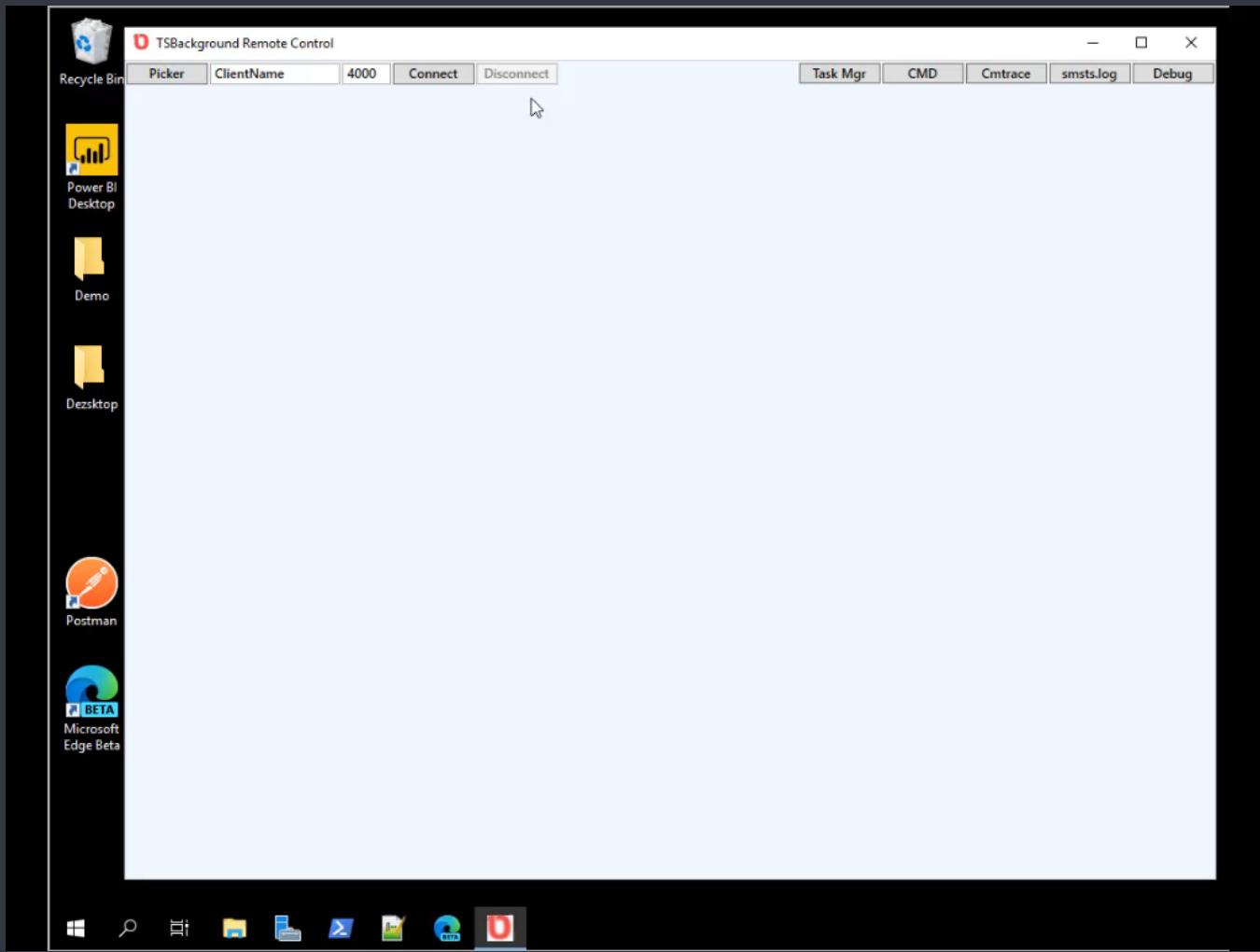
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# TSBackground – Johan Schrewelius

- Displays a custom background during OSD
- Built-in password protected command prompt and debug mode
- Displays useful information
- Displays elapsed time
- Customizable .XAML
- UI test tool
- No more F8 support in boot images!!!!
- F8 prompt password or AD Authentication
- Built-in Remote Control

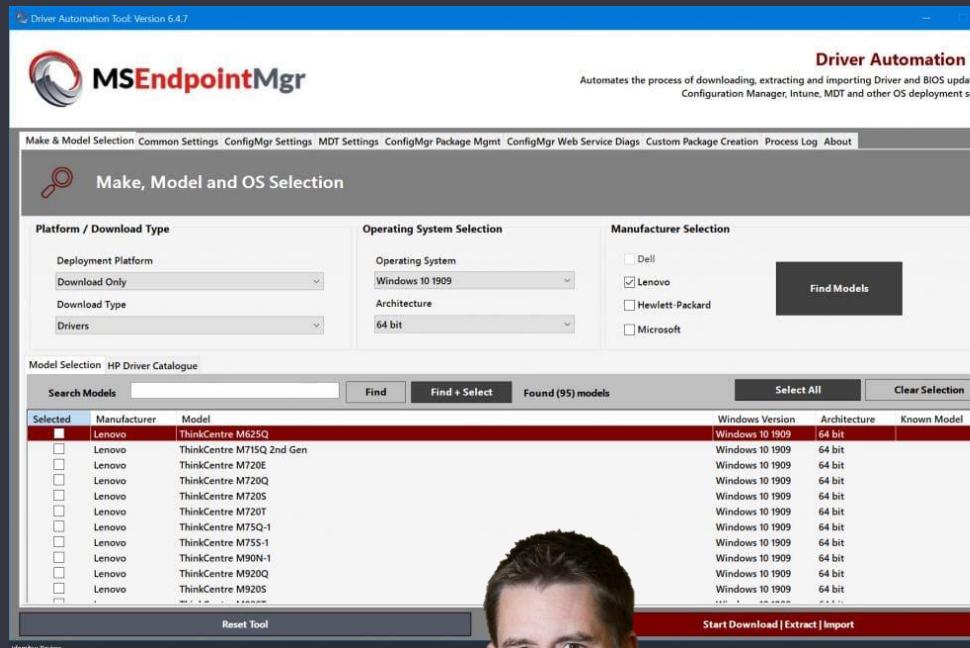


[Onevinn - Applications \(schrewelius.it\)](http://Onevinn - Applications (schrewelius.it))



# Driver Automation Tool

- Provides driver downloads for Dell, Lenovo and HP
- Create a BIOS update package
- Create a Driver Package based on the machine model and filename
- Imports the associated drivers into the newly created Driver Package



[Driver Automation Tool - MSEndpointMgr](#)



**nix**  
edition

Driver Automation Tool: Version 7.0.0

**MSEndpointMgr**

Automates the process of downloading, extracting and importing Driver and BIOS updates into Configuration Manager, Intune, MDT and other OS deployment solutions

Make & Model Selection   OEM Driver Catalogs   Common Settings   ConfigMgr Settings   MDT Settings   ConfigMgr Packages   ConfigMgr Web Service Diags  
Custom Package Creation   Intune BIOS Control   Process Log   About

### Intune BIOS Control

BIOS Management | Onboarding

Selected	OEM	Model	Production	Latest	SKU Values
<input type="checkbox"/>	HP	EliteBook 830 G8 Notebook PC	1.06.02	1.06.02	880d
<input type="checkbox"/>	HP	EliteBook 840 G7 Notebook PC	1.06.01	1.06.01	8723
<input type="checkbox"/>	HP	Elite Dragonfly G2 Notebook PC	1.06.03	1.06.03	8716
<input type="checkbox"/>	HP	ZBook Firefly 14 G7 Mobile Workstation	1.06.01	1.06.01	8723
<input type="checkbox"/>	HP	ZBook Firefly 14 G7 Mobile Workstation	1.07.01	1.06.01	8724
<input type="checkbox"/>	HP	Elite Slice for Meeting Rooms	2.53	2.53	81c3
<input type="checkbox"/>	HP	Elite Slice for Meeting Rooms	2.53	2.53	8396
<input type="checkbox"/>	HP	EliteBook 855 G8 Notebook PC	1.06.03	1.06.03	8895
<input type="checkbox"/>	HP	EliteBook 735 G6 Notebook PC	1.17.00	1.17.00	8589

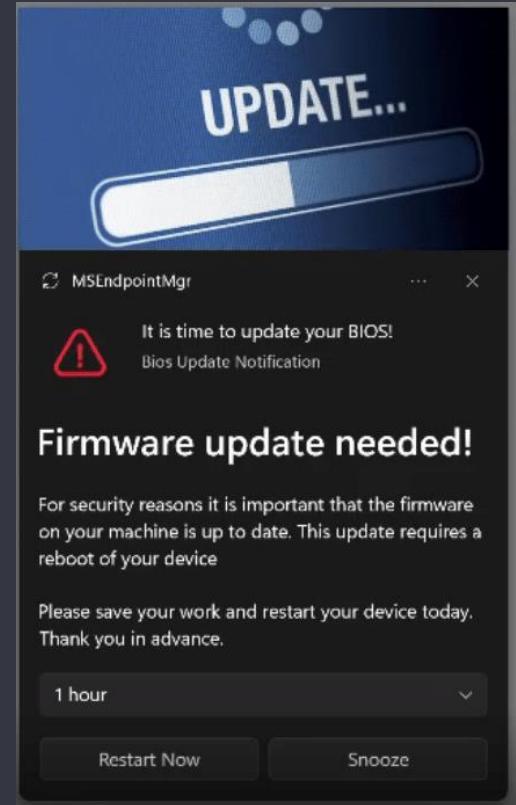
Select All   Select None   Refresh Azure XML Values   Reset Tool   Start Download | Extract | Import

Tenant / Storage Information

- Resource Group Name: [REDACTED]
- Subscription ID: [REDACTED]
- Tenant ID: [REDACTED]
- Storage Location: [REDACTED]
- Storage URL: [REDACTED].blob.core.windows...

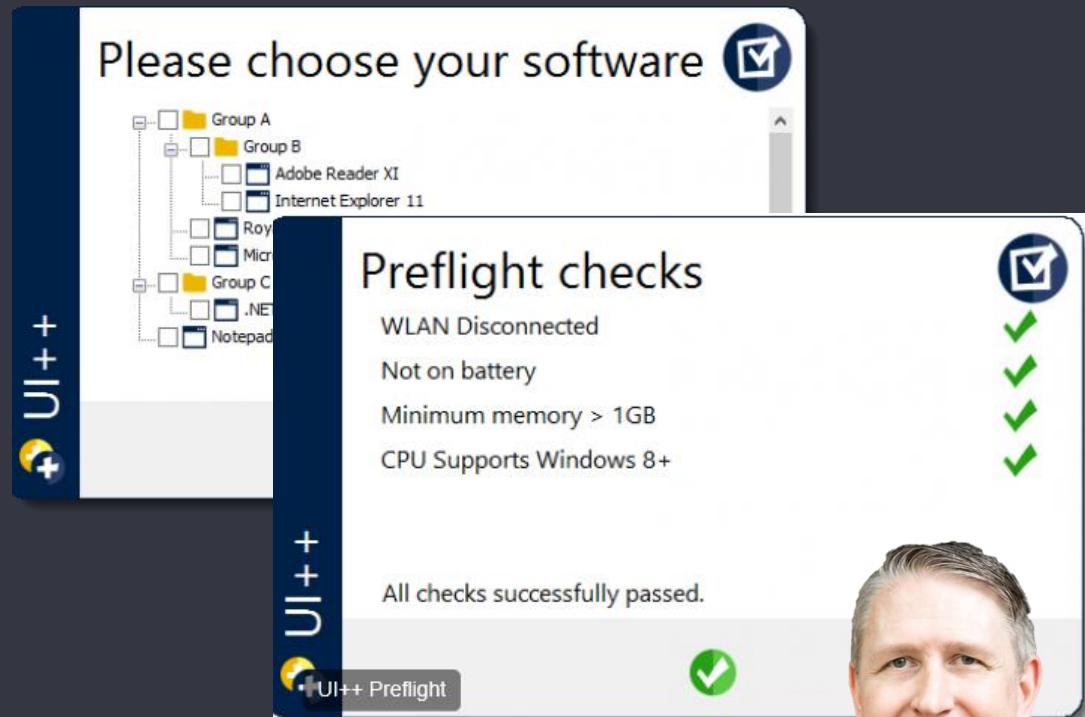
XML Control Actions

- Push Production Update(s)
- Push Latest To Production



# UI++ Jason Sandys

- OSD frontend
- Preflight checks
- AD authentication
- App tree
- Computer naming
- OU, time zone.....



[UI++ \(configmgrftw.com\)](http://configmgrftw.com)

# IPUInstaller - by Johan Schrewelius

- DeploymentScheduler + IPUInstaller
- Uses updated media
- Post commands
- Driver updates
- Errorhandling

Name	Date modified	Type	Size
Branding	2021-02-07 13:43	File folder	
DefaultApps	2021-02-07 13:43	File folder	
Edge	2021-02-07 13:43	File folder	
RemoveApps	2021-02-07 13:44	File folder	
RemoveEdgeWelcome	2021-02-07 13:44	File folder	
StartMenu	2021-02-07 13:44	File folder	
StartMenuFiles	2021-02-07 13:44	File folder	

Technology	Installation	Reboot	User Downtime	Total time
Task Sequence	14	9	25	23
Windows Servicing	38	4	4	42
IPUInstaller	12	3	3	15





Recycle Bin



Google  
Chrome



Microsoft  
Edge



A Windows upgrade is available.  
Please, schedule the upgrade.

Schedule

Postpone



Type here to search



13:40

ENG

2021-03-18



# ConfigMgr Task Sequence Monitor - Trevor Jones

- Standalone
- Task sequence monitor
- Integrates with MDT
- Excellent for troubleshooting
- Fast

CONFIGMGR TASK SEQUENCE MONITOR

CONFIGMGR

Task Sequence: Windows 11 Time Period (Hours): 24 ComputerName: W10TEST126 Errors Only: Error Count: 3 Refresh (Minute)

MDT

MDT Integrated? Deployment Status: Current Step: StepName: Deployment Progress:

Start: End: Elapsed: Percent Complete:

COMPUTERNAME	EXECUTIONTIME	STEP	ACTIONNAME	GROUPNAME	LASTSTATUSMSGNAME
W10TEST126	3/14/2022 9:16:28 AM	58	Setup Windows and Configuration Manager	Setup Operating System	The task sequence execution engine performed a system reboot initiated by
W10TEST126	3/14/2022 9:15:57 AM	58	Setup Windows and Configuration Manager	Setup Operating System	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:38 AM	57	CopyToHD	Setup Operating System	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:34 AM	56	CopyToHD		
W10TEST126	3/14/2022 9:15:34 AM	56		Setup Operating System	The task sequence execution engine started a group
W10TEST126	3/14/2022 9:15:34 AM	55	I am feeling Lucky!	Install Operating System	The task sequence execution engine skipped a disabled action
W10TEST126	3/14/2022 9:15:34 AM	54	Dell Optiplex 7010	Install Operating System	The task sequence execution engine skipped an action because the condition
W10TEST126	3/14/2022 9:15:34 AM	53	WinPE HP	Install Operating System	The task sequence execution engine skipped an action because the condition
W10TEST126	3/14/2022 9:15:34 AM	52	Dell Latitude E7450 Win10 x64	Install Operating System	The task sequence execution engine skipped an action because the condition
W10TEST126	3/14/2022 9:15:34 AM	51	TBSStatus 02	Install Operating System	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:34 AM	50	Correct Missing Mouse Cursor	The task sequence execution engine successfully completed execution of a g	
W10TEST126	3/14/2022 9:15:34 AM	49	Unmount Registry SOFTWARE Hive	Correct Missing Mouse Cursor	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:33 AM	48	Disable Suppressed Mouse Cursor	Correct Missing Mouse Cursor	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:33 AM	47	Load Registry SOFTWARE Hive	Correct Missing Mouse Cursor	The task sequence execution engine successfully completed an action
W10TEST126	3/14/2022 9:15:33 AM	46		Correct Missing Mouse Cursor	The task sequence execution engine started a group

Action Output:

Click any step to see the action output.

# Links

- Windows Update Compliance Workbook  
<https://msendpointmgr.com/2021/11/26/windows-update-compliance-workbook-community-edition>
- LIGHTWEIGHT LAPS SOLUTION FOR INTUNE (MEM)  
<https://www.lieben.nu/liebensraum/2021/06/lightweight-laps-solution-for-intune-mde/>
- Intune Management <https://github.com/Micke-K/IntuneManagement>
- Enhance Intune Inventory data with Proactive Remediations and Log Analytics  
<https://msendpointmgr.com/2021/04/12/enhance-intune-inventory-data-with-proactive-remediations-and-log-analytics/>
- Cloud Laps Community Edition - <https://msendpointmgr.com/cloudlaps/>
- SyncMLViewer - <https://github.com/okieselbach/SyncMLViewer>
- Intune and Azure AD Conditional Access documentation -  
<https://github.com/ThomasKur/IntuneDocumentation>
- ConfigMGR Prereq tool  
<https://msendpointmgr.com/configmgr-prerequisites-tool/>

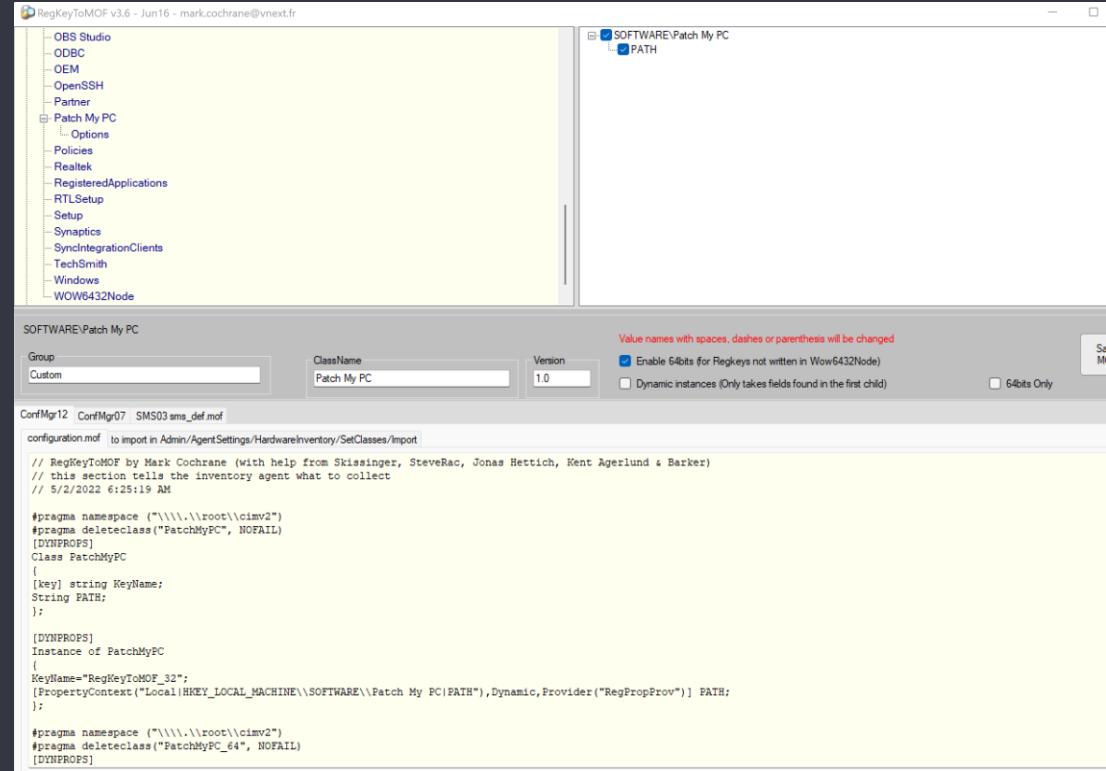
# Links

- SQL Maintenance Solution  
<https://ola.hallengren.com>
- Driver Automation Tool  
[Driver Automation Tool – MSEndpointMgr](#)
- MashPIA  
<https://github.com/EGGLAS/ConfigMgr/tree/master/Driver%20Management/HPIA>
- TSBackground  
<https://onevinn.schrewelius.it/Apps01.html>
- Client Center  
<https://github.com/rzander/sccmclctr>
- Reg2CI  
<Https://reg2ps.azurewebsites.net>

Thank you!

# RegKey2Mof

- UI to extend HW inventory
- Generates
  - Configuration.mof
  - Classes import file
- Makes it so much easier!!



[https://github.com/AlzheimerZA/RegKeyToMOF\\_v36/](https://github.com/AlzheimerZA/RegKeyToMOF_v36/)

# Reg2CI – Roger Zander

- Reg2CI
- Convert reg files to:
- PowerShell CI
  - Check Script
  - Remediation Script

Registry to PowerShell converter

Version 1.0.2.0 (09.May.2017)

Registry:

```
I
```

PowerShell:

..and you will get the PowerShell code here...

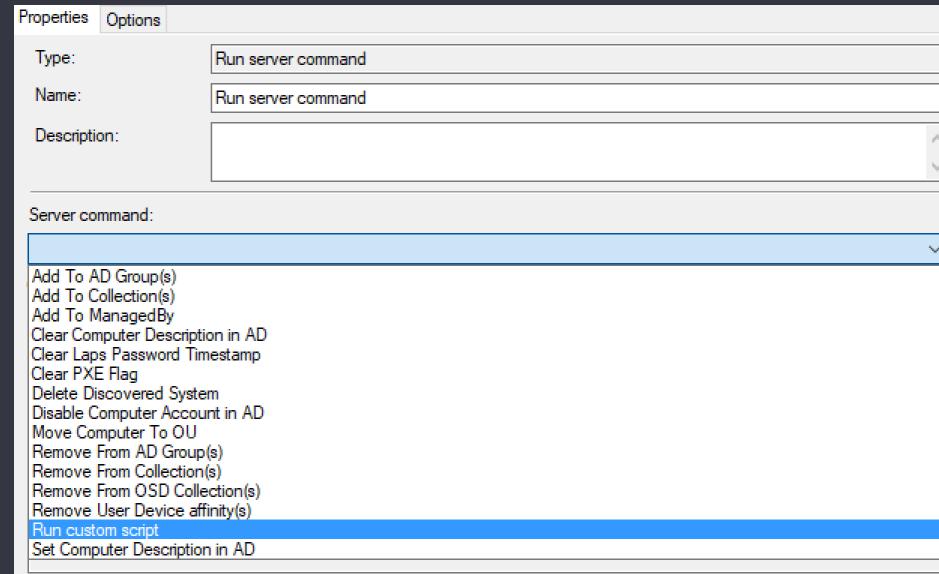
 

[Https://reg2ps.azurewebsites.net/](https://reg2ps.azurewebsites.net/)



# TSCommander

- Replaces OS Deployment webservices
- Task sequence editor extension
- Service that executes the commands
- Commands sent as Status Messages
- Works over CMG



<https://onevinn.schrewelius.it/>



# SQL Maintenance Solution

- Ola Hallengren
- Simply the best SQL maintenance solution
- Should be used for:
  - SCCM DB
  - WSUS DB
- Will increase performance
- Check for updates as it always has them

**SQL Server Maintenance Solution**

**Menu**

- [Home](#)
- [SQL Server Backup](#)
- [SQL Server Integrity Check](#)
- [SQL Server Index and Statistics Maintenance](#)
- [Downloads](#)
- [Version History](#)
- [Frequently Asked Questions](#)
- [Organizations that Use the Solution](#)
- [Sign Up for the Newsletter](#)
- [License](#)
- [Contact](#)

**GitHub**



**Awards**



**SQL Server Backup, Integrity Check, and Index and Statistics Maintenance**

The SQL Server Maintenance Solution comprises scripts for running backups, integrity checks, and index and statistics maintenance on all editions of Microsoft SQL Server 2008, SQL Server 2012, and SQL Server 2019. The solution is based on stored procedures. The solution has been designed for the most mission-critical environments, and it is used in many organizations.

*"Personally, I'd recommend that you stop using Database Maintenance Plans entirely, and switch to a much more robust maintenance implementation using TSQL scripts. A free download is available at <http://ola.hallengren.com/>. - Jonathan Kehayias"*

**Getting Started**

Download [MaintenanceSolution.sql](#). This script creates all the objects and jobs that you need.

Learn more about using the SQL Server Maintenance Solution:

- [DatabaseBackup](#): SQL Server Backup
- [DatabaseIntegrityCheck](#): SQL Server Integrity Check
- [IndexOptimize](#): SQL Server Index and Statistics Maintenance

The SQL Server Maintenance Solution is available on [GitHub](#).

Sign up for the [newsletter](#) to be alerted about updates to the solution.

**SQL Server Smart Backup to Multiple Files**

Are you backing up to multiple files to improve backup performance? Are you running into the size limitations, when backing up to Azure Blob Storage?

I have had the option to backup to multiple files for a long time. The challenge has just been that you have got the same number of backup files for all databases, small or large. I am now introducing two new options to do backup to multiple files.

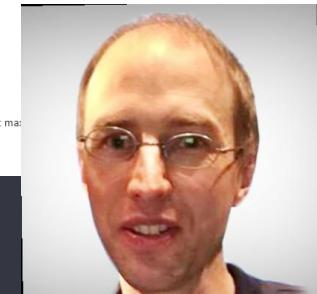
Here's how it can be used to back up databases, with a size of 10240 MB or larger, to 8 files, and smaller databases to one file.

```
EXECUTE dbo.DatabaseBackup
@Databases = 'USER_DATABASES',
@Directory = 'C:\Backup',
@BackupType = 'FULL',
@Compress = 'Y',
@CheckSum = 'Y',
@NumberofFiles = 8,
@MinBackupSizeForMultipleFiles = 10240
```

Here's how it can be used to dynamically calculate the number of backup files, so that each file is getting at most 10240 MB.

```
EXECUTE dbo.DatabaseBackup
@Databases = 'USER_DATABASES',
@Directory = 'C:\Backup'
```

<https://ola.hallengren.com>



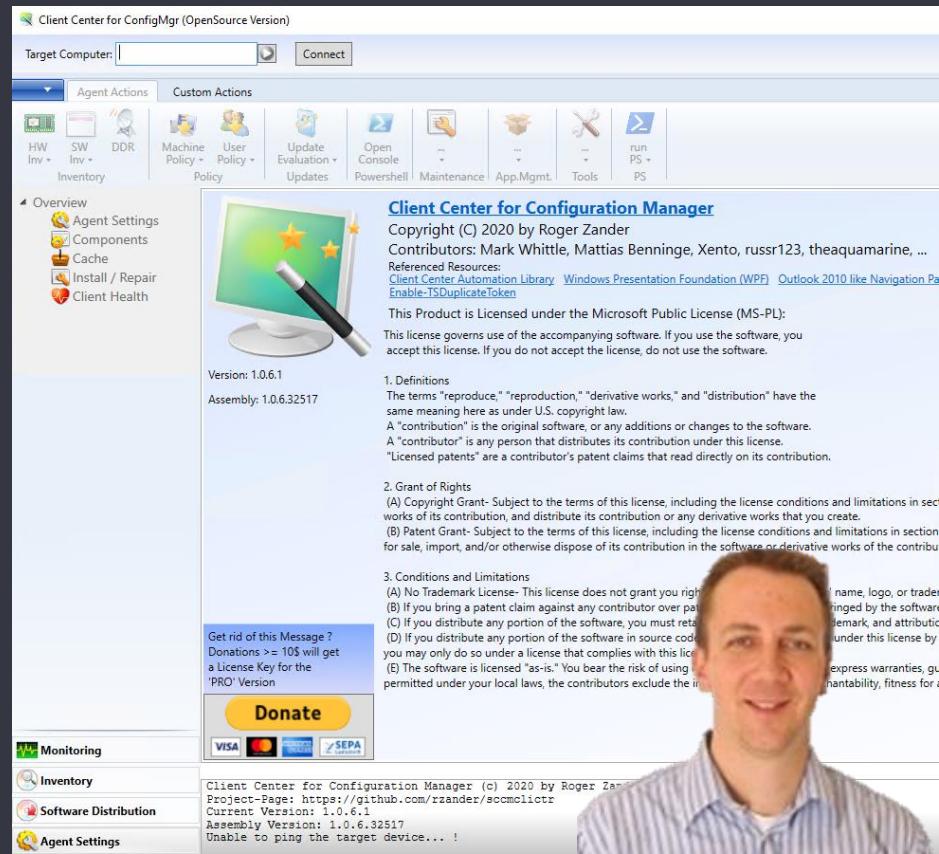
# Extra Tools

# Client Center – Roger Zander

- Client-side troubleshooting
- Reinstall applications
- Inventory
- Trigger tasks
- Settings

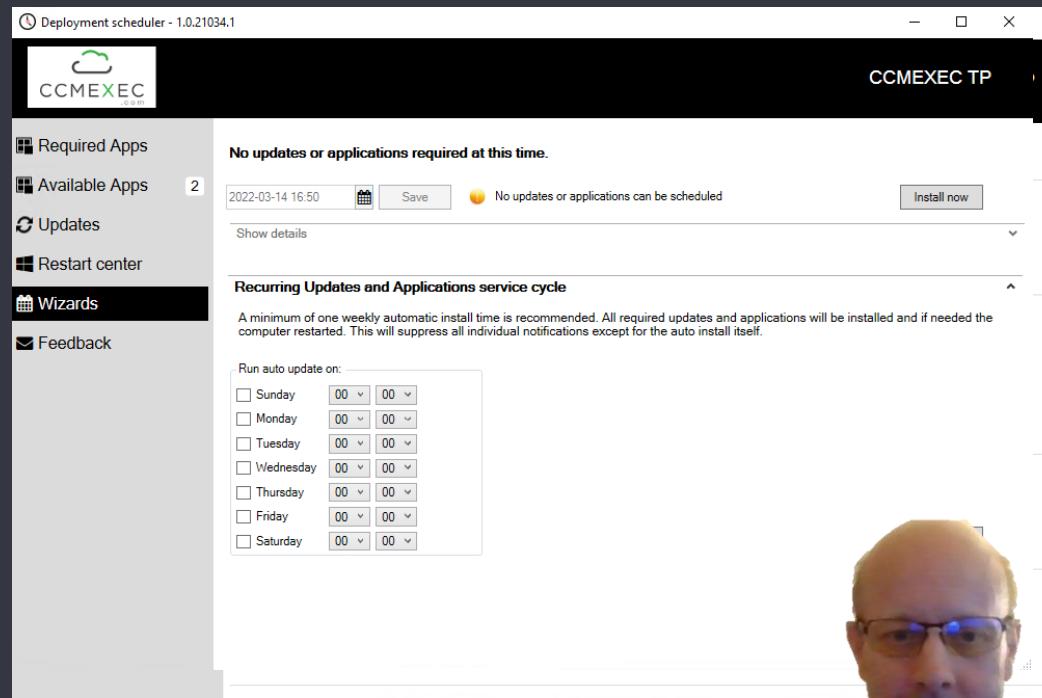
And everything else you can imagine ..(almost)

<https://github.com/rzander/sccmclctr>



# Deployment Scheduler - Johan Schrewelius

- Custom “Software Center”
- Custom Scheduling
- Restart scheduling
- Wizards, custom planning
- Feedback



<https://onevinn.schrewelius.it/Apps01.html>



# ConfigMgr Client Health – Anders Rödland

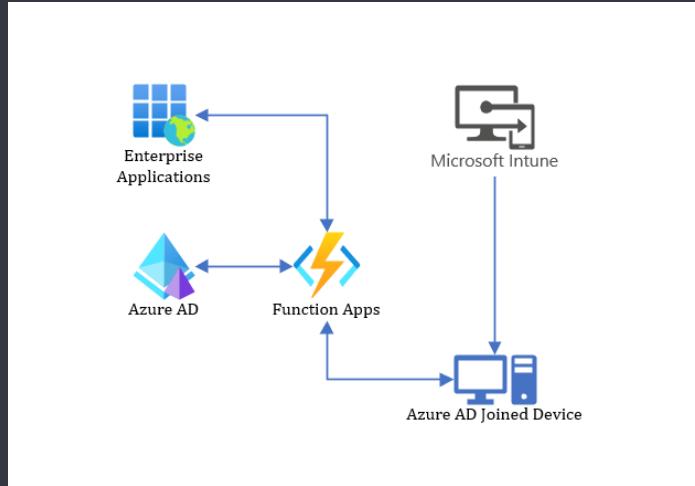
- Checks many components
- Optional remediation
- Logs to a SQL DB
- Reporting Services report
- Configuration Manager Console Integration

```
PowerShell version: 5.1.16299.15. Script executing with Administrator rights.
ConfigMgr Client Health 0.7.6 starting.
Script last ran: 01/01/0001 00:00:00
WMI Check: OK
Compliance States: OK.
Configuration Manager Client is installed
SMSMgr: OK
ConfigMgr Client Site Code: OK
ConfigMgr Client Cache Size: OK
WARNING: ConfigMgr Client Max Log Size: Configuring to 4096 KB
ConfigMgr Client Max Log History: OK (1)
ConfigMgr Client Provisioning Mode: OK
ConfigMgr Client Certificate: OK
ConfigMgr Hardware Inventory scan: OK
Software Metering - PrepDriver: OK
DNS Check: OK
BITS: OK
GPO Cache: Broken (Event Log)
GPO Cache: Repaired (Event Log)
StateMessage: OK
Adminshare Admin$: OK
Adminshare C$: OK
WARNING: Drivers: 1 unknown or faulty device(s)
WARNING: Missing or faulty driver: Microsoft Hyper-V Virtual Machine Bus Provider
Free space C: OK
Restarting service CcmExec...
WARNING: Waiting for service 'SMS Agent Host (CcmExec)' to stop...
WARNING: Waiting for service 'SMS Agent Host (CcmExec)' to stop...
WARNING: Waiting for service 'SMS Agent Host (CcmExec)' to stop...
WARNING: Waiting for service 'SMS Agent Host (CcmExec)' to stop...
Pending Reboot: OK
Clearing ConfigMgr orphaned Cache items.
Failed Clearing ConfigMgr orphaned Cache items.
Starting Built-in Configuration Manager Client Health Evaluation
Setting last ran to 05/15/2018 04:45:21
Updating local logfile with results
Updating fileshare logfile with results
Updating SQL database with results
```

<https://www.andersrodland.com/configmgr-client-health/>

# Password Reminder

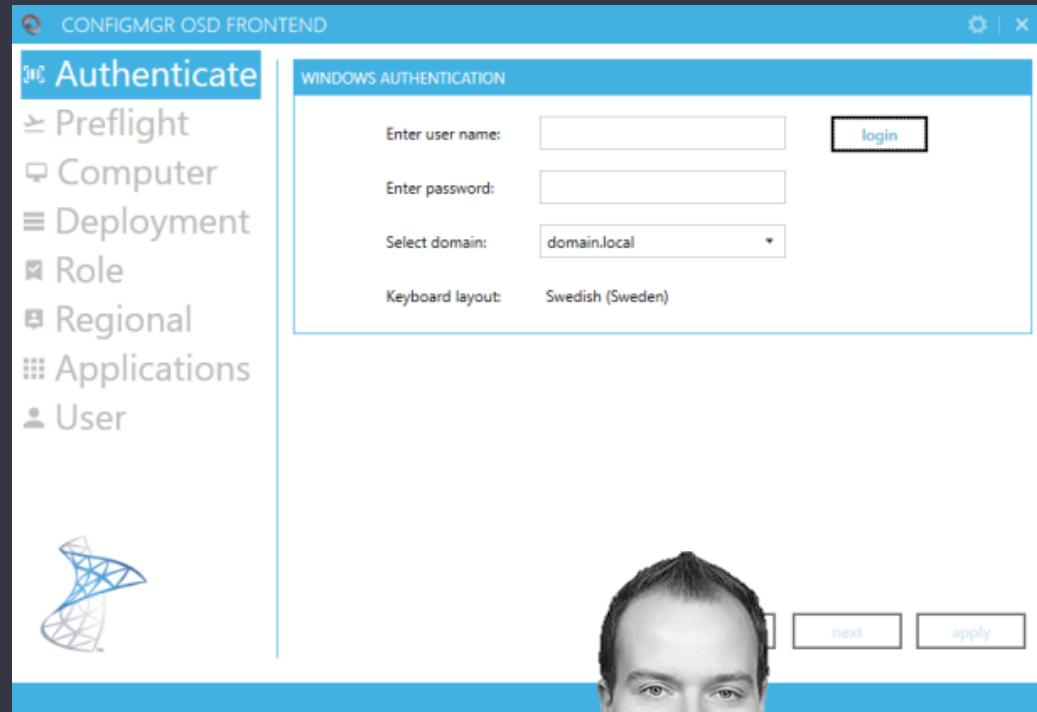
- Password Reminder
- Proactive Remediation
- Toast Notification



<https://www.smithwentright.com/2022/03/07/password-reminder-with-proactive-remediation-for-aad-joined-devices/>

# ConfigMgr OSD Front end

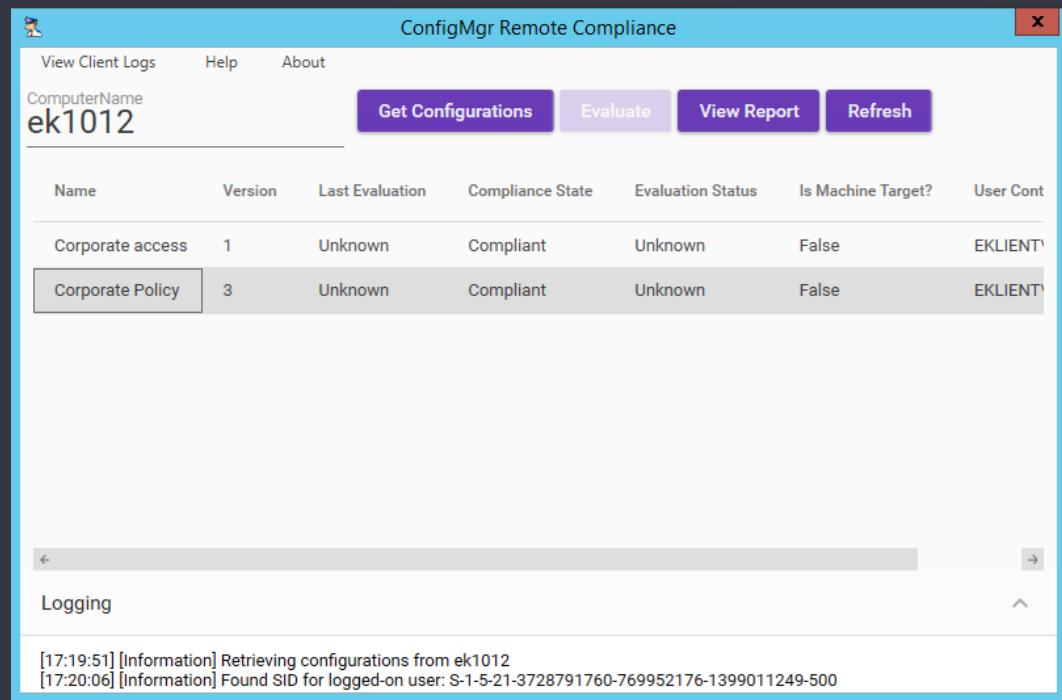
- Uses a webservice in the back end
- Replaces UDI
- With MDT or without
- Roles, apps, user



<https://gallery.technet.microsoft.com/ConfigMgr-OSD-FrontEnd-100-55209031>

# ConfigMgr Remote Compliance – Trevor Jones

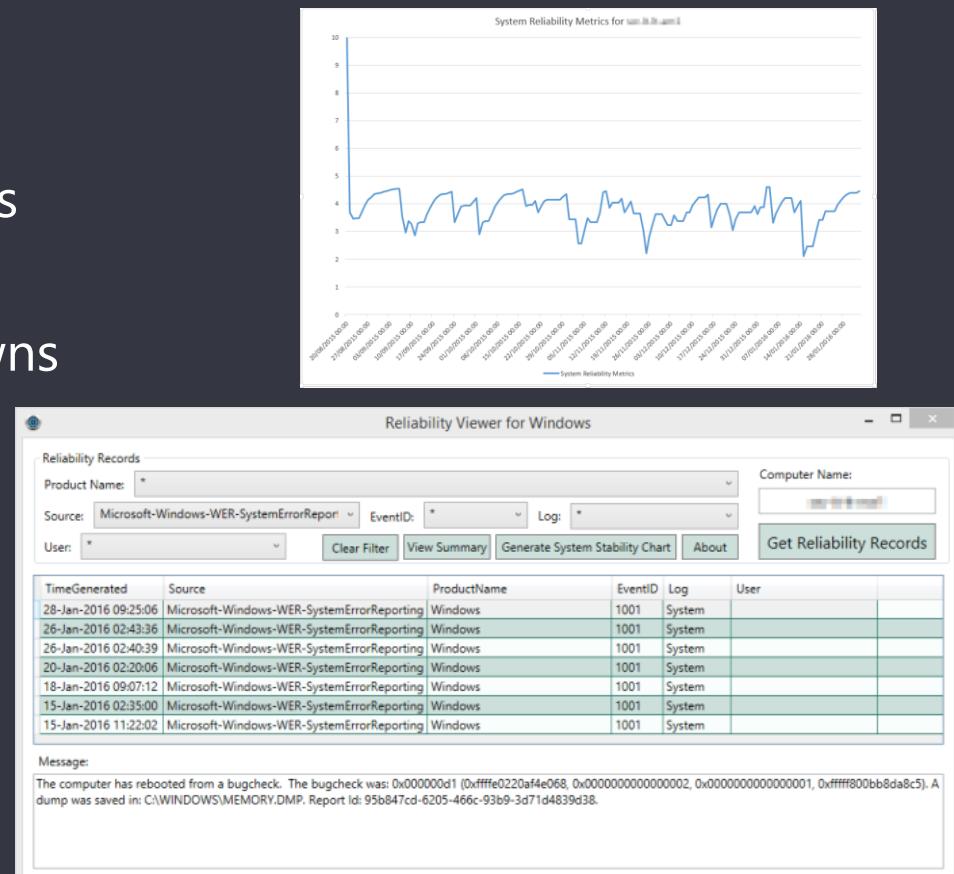
- Run compliance report remotely



<https://gallery.technet.microsoft.com/ConfigMgr-Remote-Compliance-2a9e55f3>

# Reliability Viewer for Windows

- Application crashes
- Software Update installations
- Msilnstaller events
- Unexpected system shutdowns
- Blue-screens
- Driver installations
- Hardware failure



# SCCM Client TCP Port tester – Trevor Jones

- Checks all necessary TCP ports allow inbound traffic
- No UDP support

The screenshot shows a window titled "ConfigMgr Client TCP Port Tester". The main area is labeled "CLIENT PORTS (INBOUND)". A table lists the following information:

PORT	STATUS	PURPOSE
80	✓	HTTP Communication
443	✗	HTTPS Communication
445	✓	SMB
135	✓	Remote Assistance / Remote Desktop
2701	✓	Remote Control
3389	✓	Remote Assistance / Remote Desktop

At the bottom of the table, the message "Completed!" is displayed.

<https://smsagent.blog/2019/03/07/configmgr-client-tcp-port-tester/>

# Links

# Links

- Windows Update Compliance Workbook  
<https://msendpointmgr.com/2021/11/26/windows-update-compliance-workbook-community-edition>
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<https://www.lieben.nu/liebensraum/2021/06/lightweight-laps-solution-for-intune-mde/>
- Intune Management <https://github.com/Micke-K/IntuneManagement>
- Enhance Intune Inventory data with Proactive Remediations and Log Analytics  
<https://msendpointmgr.com/2021/04/12/enhance-intune-inventory-data-with-proactive-remediations-and-log-analytics/>
- Cloud Laps Community Edition - <https://msendpointmgr.com/cloudlaps/>
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<https://github.com/ThomasKur/IntuneDocumentation>
- ConfigMGR Prereq tool  
<https://msendpointmgr.com/configmgr-prerequisites-tool/>

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- Client Center  
<https://github.com/rzander/sccmclctr>
- Reg2CI  
<Https://reg2ps.azurewebsites.net>

Slides and demos from the conference will be available at

**<https://github.com/nordicinfrastructureconference/2022>**