

Endpoint Manager - Community Tools

- Jörgen Nilsson
- Principal Consultant, Onevinn
- Twitter @ccmexec
- MVP / MCT
- Ronni Pedersen
- Cloud Architect, APENTO
- Twitter @ronnipedersen
- MVP / MCT

Official sponsors



RECAST SOFTWARE

NORDIC

— VIRTUAL SUMMIT —



Jörgen Nilsson

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

Contact Info

- Mail: Jorgen.nilsson@onevinn.se
- Twitter: [@ccmexec](https://twitter.com/ccmexec)





Ronni Pedersen

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

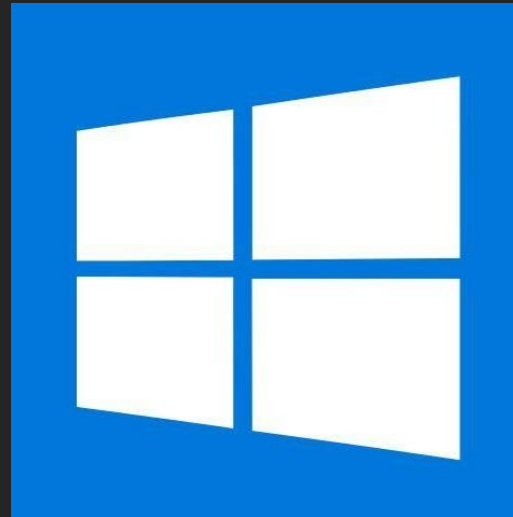
Contact Info

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



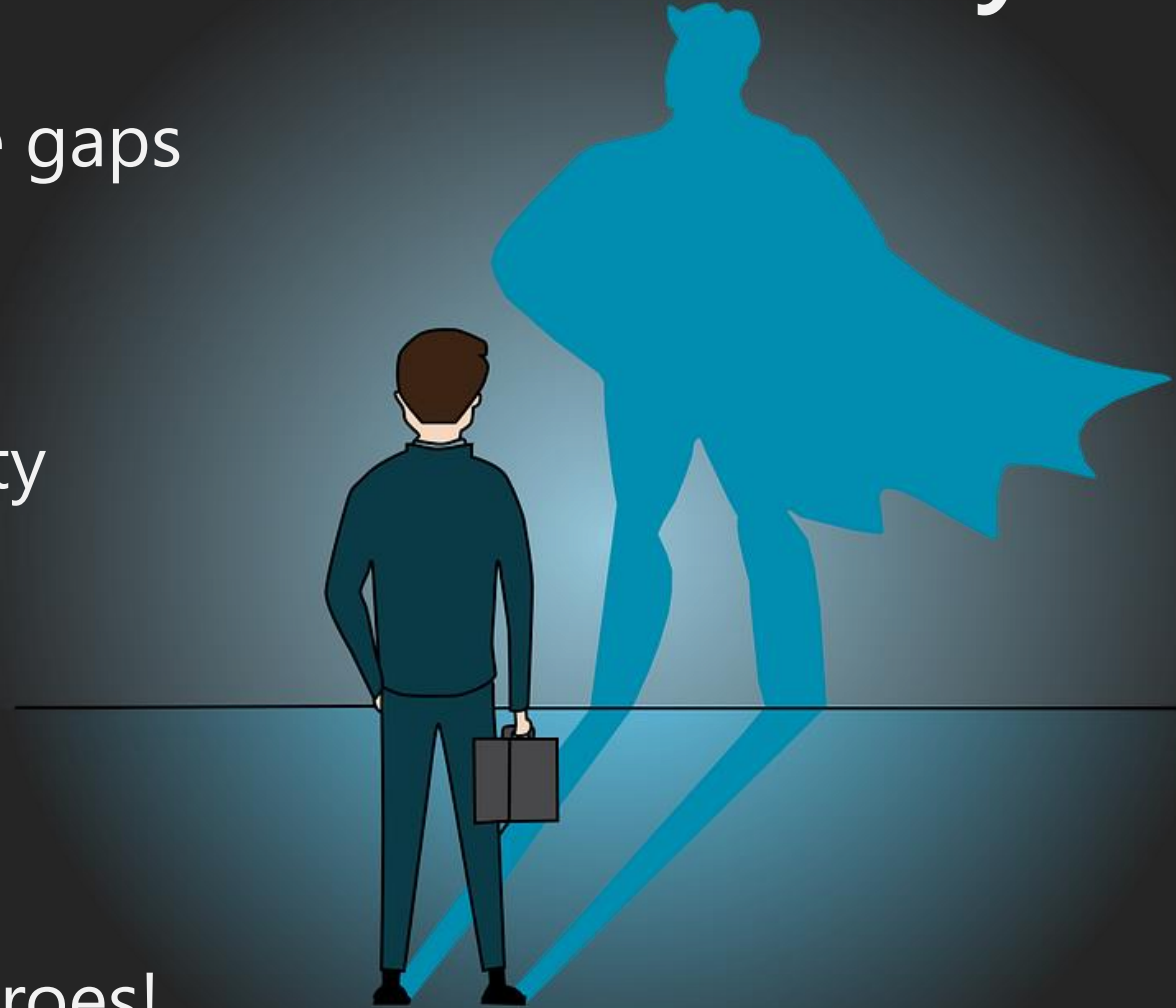
Takeaways

- The Endpoint Manager Community Toolbox



Why do we need Community Tools?

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



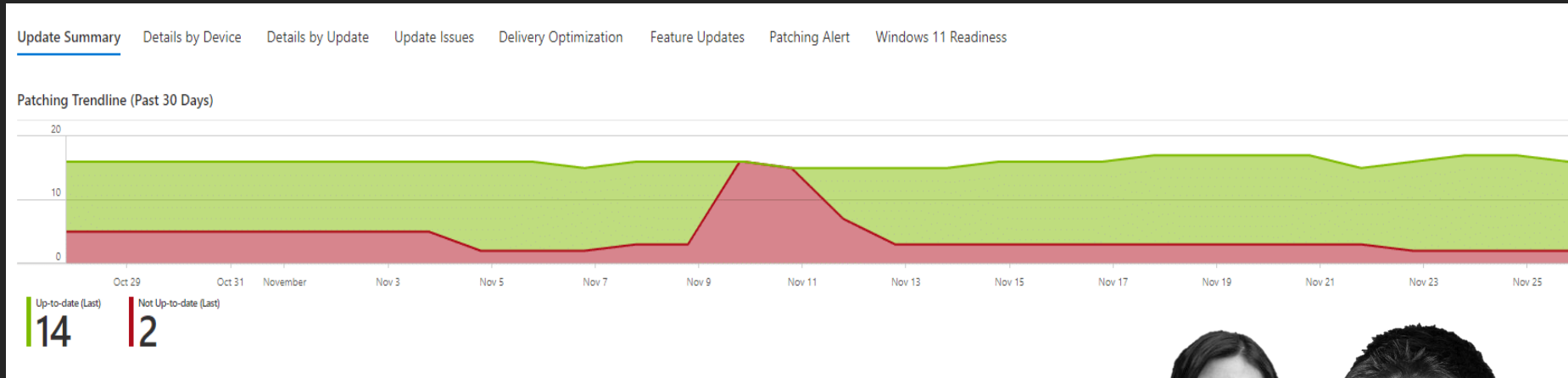
They are our heroes!

Community Tools

Microsoft Endpoint Manager (Intune)

Windows Update Compliance Workbook

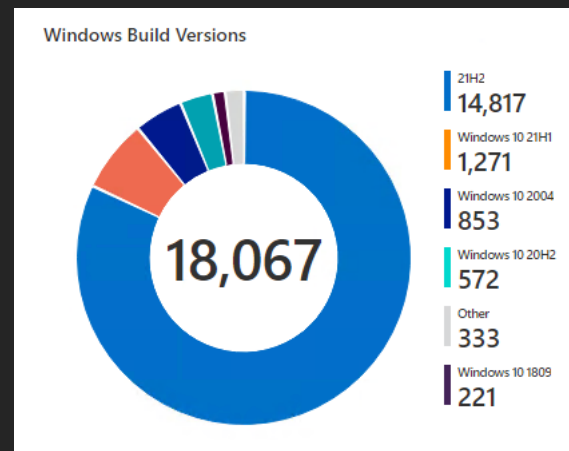
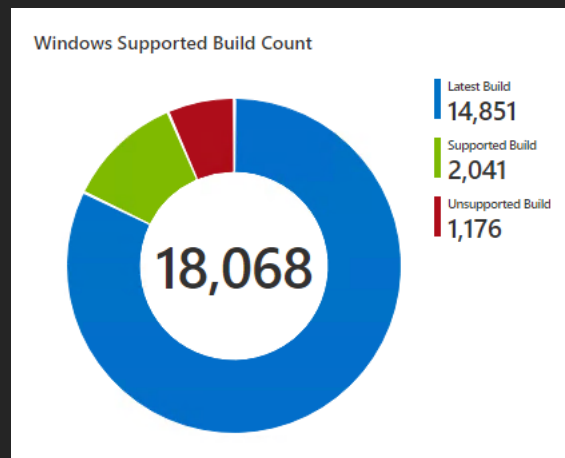
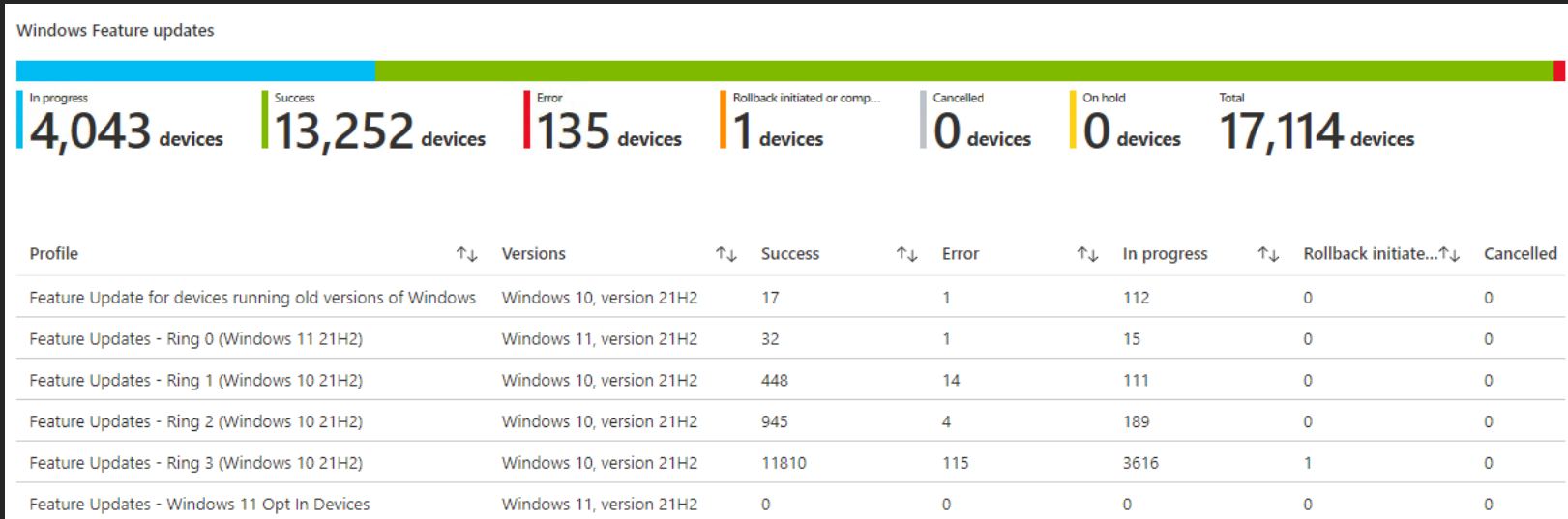
- Update Compliance Dashboard
- Breakdown of Windows OS patching
- Insights on Errors, Safehold issues and Delivery Optimization
- Windows 11 Readiness Status



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




Customer Example




Windows 11 Readiness Scan Status by Manufacturer

Manufacturer	↑↓	Capable ↑↓	NotCapable ↑↓	Unkno... ↑↓
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

CloudLAPS Community Edition

 CloudLAPS Home Search Privacy

 CloudLAPS Home Search Privacy

rop@apento.com Sign out

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?s(
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



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/UCvGu4AloZxB0NV7o-yUuQ2A>

Lightweight LAPS Solution for Intune (LeanLAPS)

- Manages Local Admin Password
- Proactive remediations
- Powershell tool

Proactive remediations ...

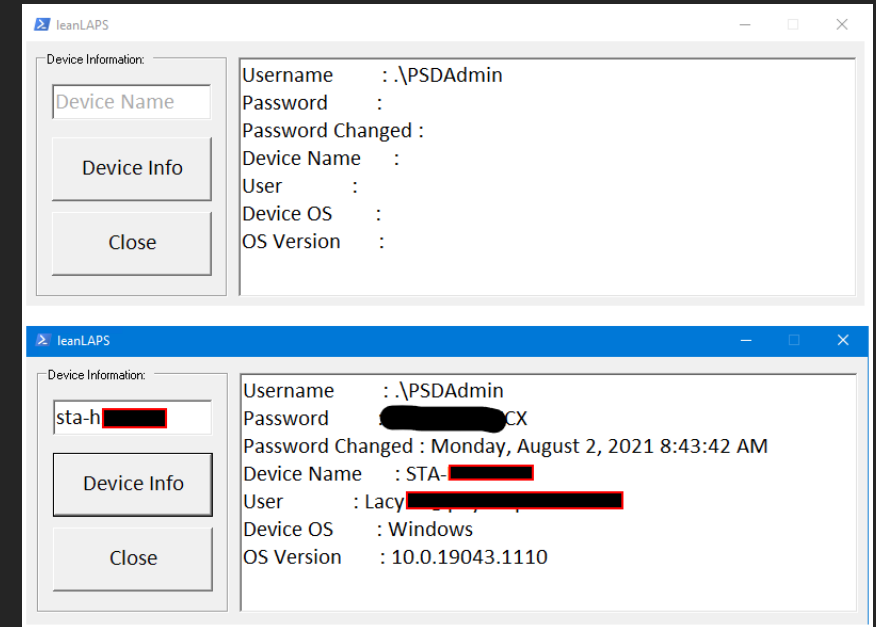
Refresh + Create script package Columns

✓ 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



BitLocker Management in the Cloud

- Codename: "CloudBAM"
- Moving your key recovery management to Azure
- Community developed MBAM replacement (CloudBAM)
- Self-Service portal
- Proof of Concept
- What about USB devices ?

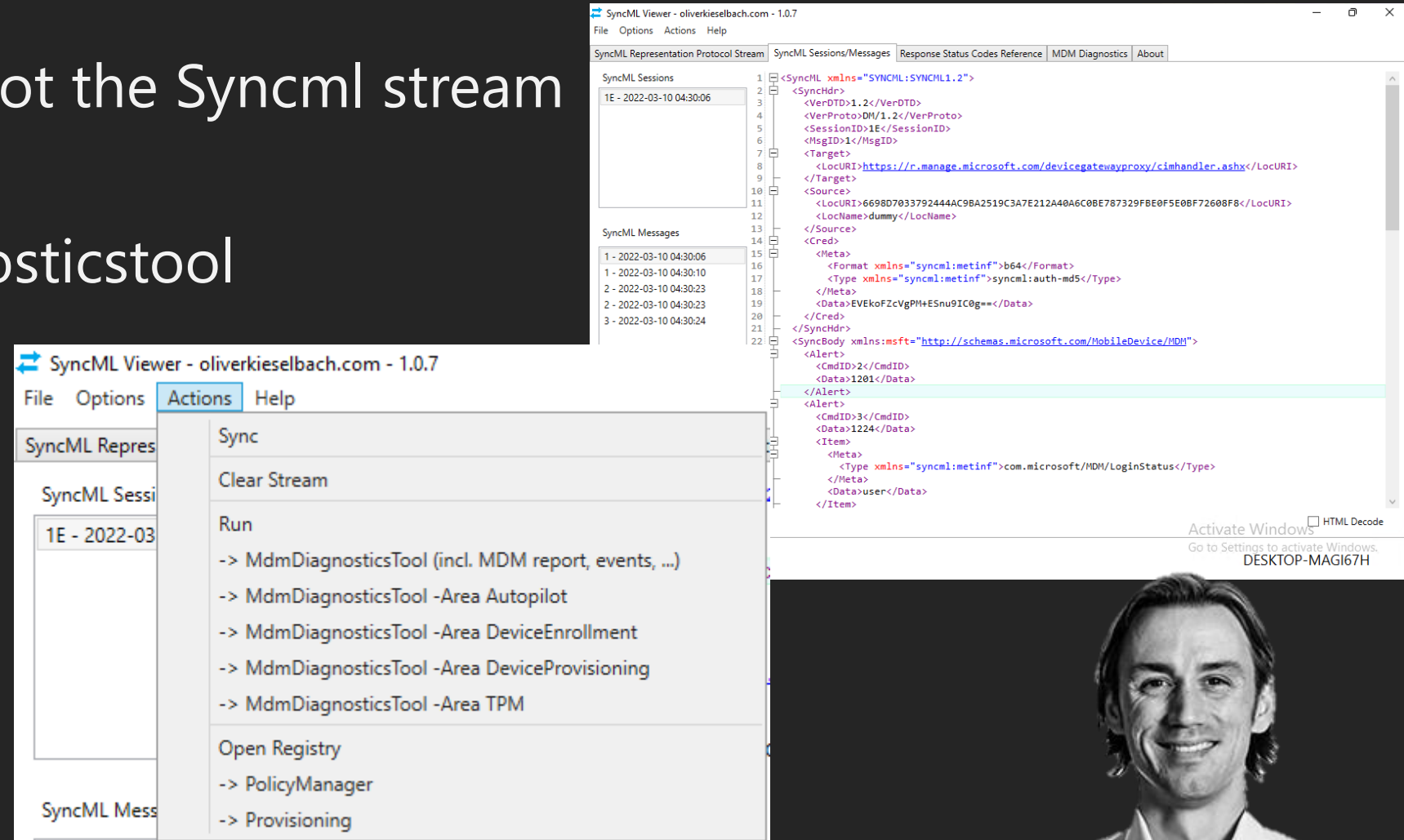
See full session: Day 1, Room 1, 10.00

Michael Mardahl
Microsoft MVP



SyncMLViewer

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

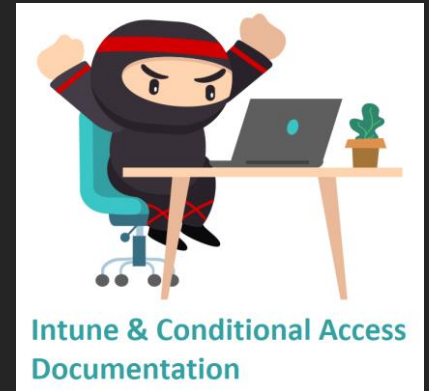


Intune & Azure AD Conditional Access

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
- Apple Push Certificate
- Apple VPP
- Device Categories
- Exchange Connector
- Application Configuration
- PowerShell Scripts
- ADMX Configuration Profiles
- Security Baseline

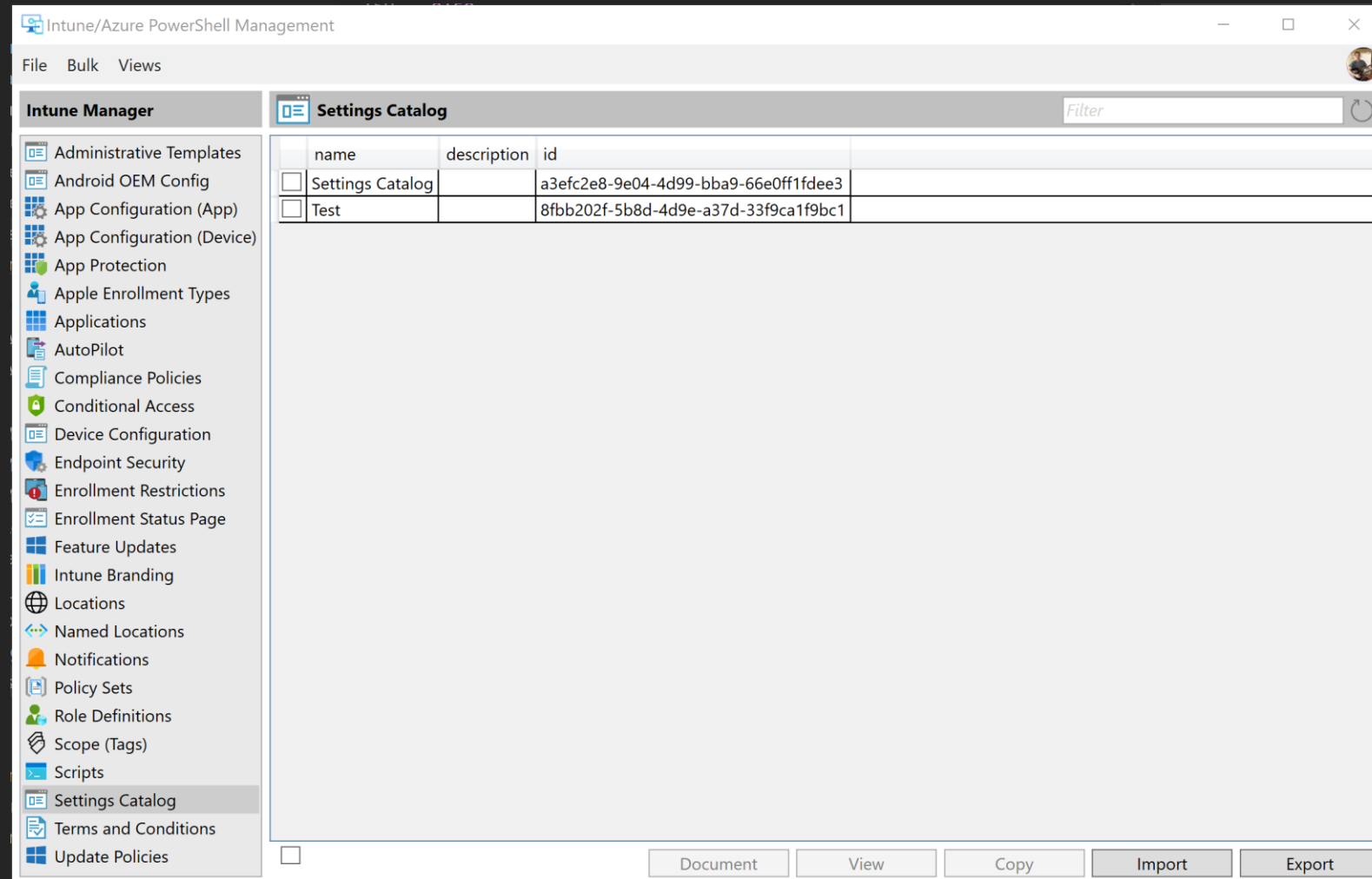


<https://github.com/ThomasKur/IntuneDocumentation>



Micke-K Intune Management

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



Intune BIOS Control

Driver Automation Tool: Version 7.0.0

MSEndpointMgr **Driver Automation Tool**
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 checked="" 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

Tenant / Storage Information

Resource Group Name
Subscription ID
Tenant ID
Storage Location
Storage URL
[blob.core.windows...](#)

XML Control Actions

Push Production Update(s)
Push Latest To Production

Start Download | Extract | Import

<https://msendpointmgr.com/driver-automation-tool/>





Community Tools

Microsoft Endpoint Manager (Configuration Manager)

ConfigMgr Prerequisites Tool

- Configuration Manager configuration

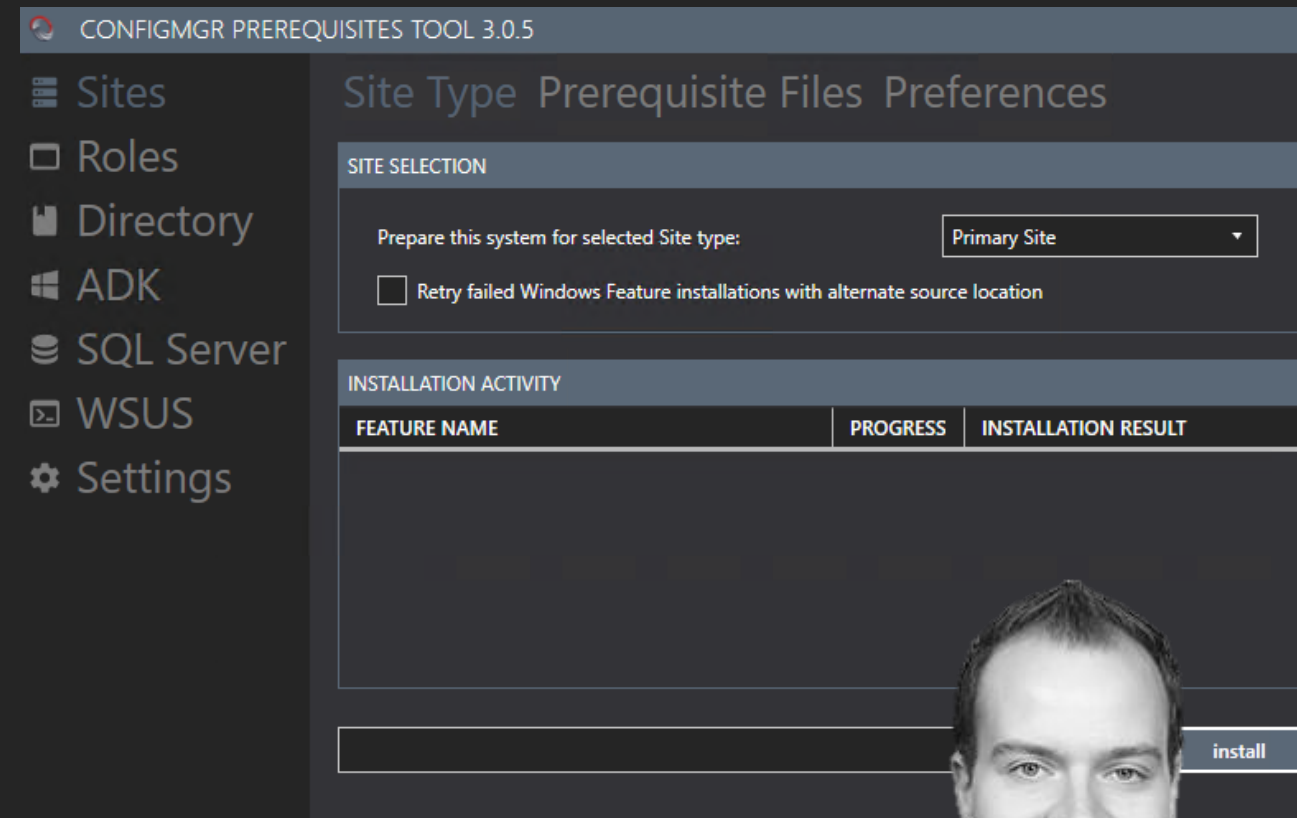
- Roles
- Download pre-reqs
- ADK

- Active Directory configuration

- Extend Schema
- Create Container

- SQL Server configuration

- Configure SQL Memory
- Validate Collation
- Pre-create DB



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 gets better

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 2014. 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](#). Free Tool in the [2013](#), [2012](#), [2011](#), and [2010](#) SQL Server Magazine Awards. The SQL Server Maintenance Solution is [free](#).

"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 tool. Hallengren's blog: <http://ola.hallengren.com>." - [Jonathan Kehavias](#)

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?

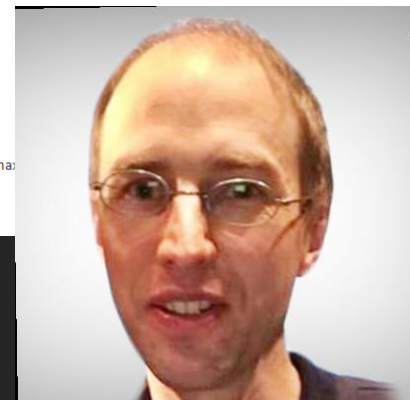
I have had the option to backup to multiple files for a long time. The challenge has just been that you have got the same number of backup files for all databases, small or large. I am now introducing two new options to do backup to multiple files.

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',
@NumberOfTypeFiles = 8,
@MinBackupSizeForMultipleFiles = 10240
```

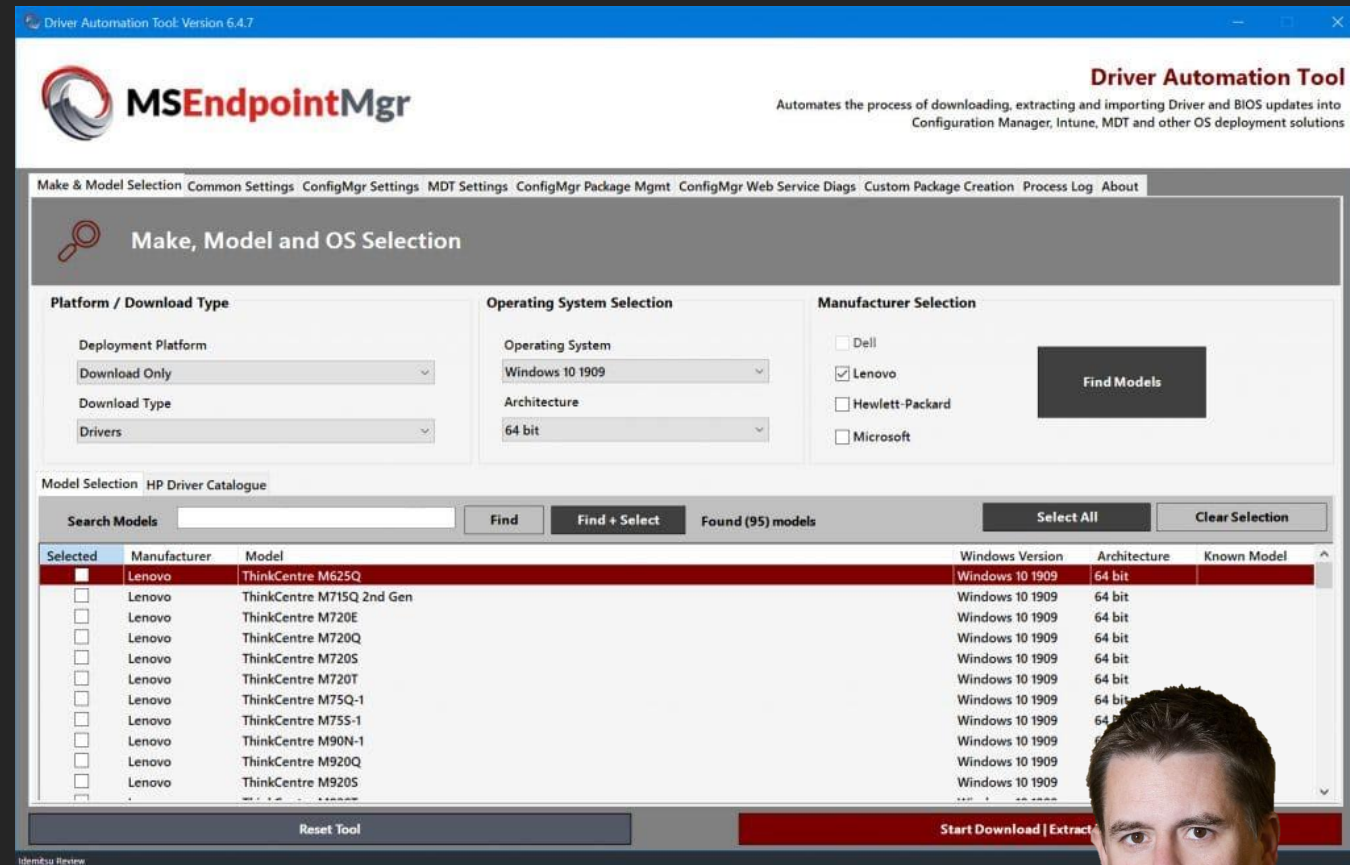
Here's how it can be used to dynamically calculate the number of backup files, so that each file is getting at max 10240 MB.

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



Driver Automation Tool – Maurice Daly

- 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



MASHPIA – Daniel Gråhns / Nicklas Eriksson

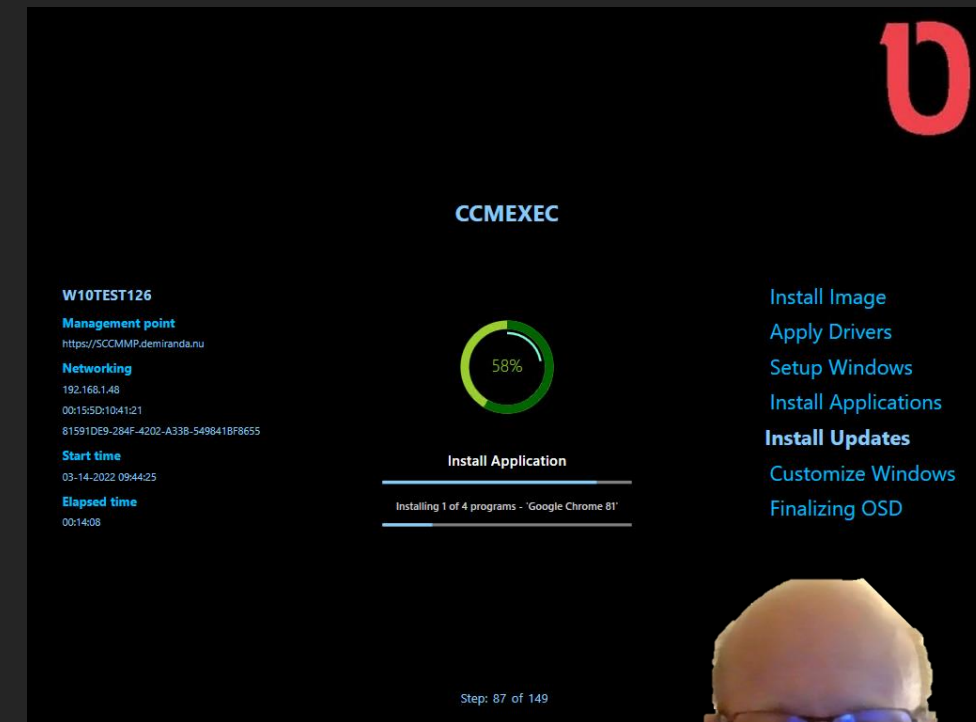
- Install HP drivers and related Software during OS Deployment or drivers update.
- Automate download of drivers, bios and software
- Create and distribute packages in Configuration Manager
- Easily update the drivers/software to the latest version automatically



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

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





Recycle Bin



Power BI
Desktop



Demo



Dezsktop



Postman



Microsoft
Edge Beta

TSBackground Remote Control

Picker

ClientName

4000

Connect

Disconnect

Task Mgr

CMD

Cmtrace

smsts.log

Debug

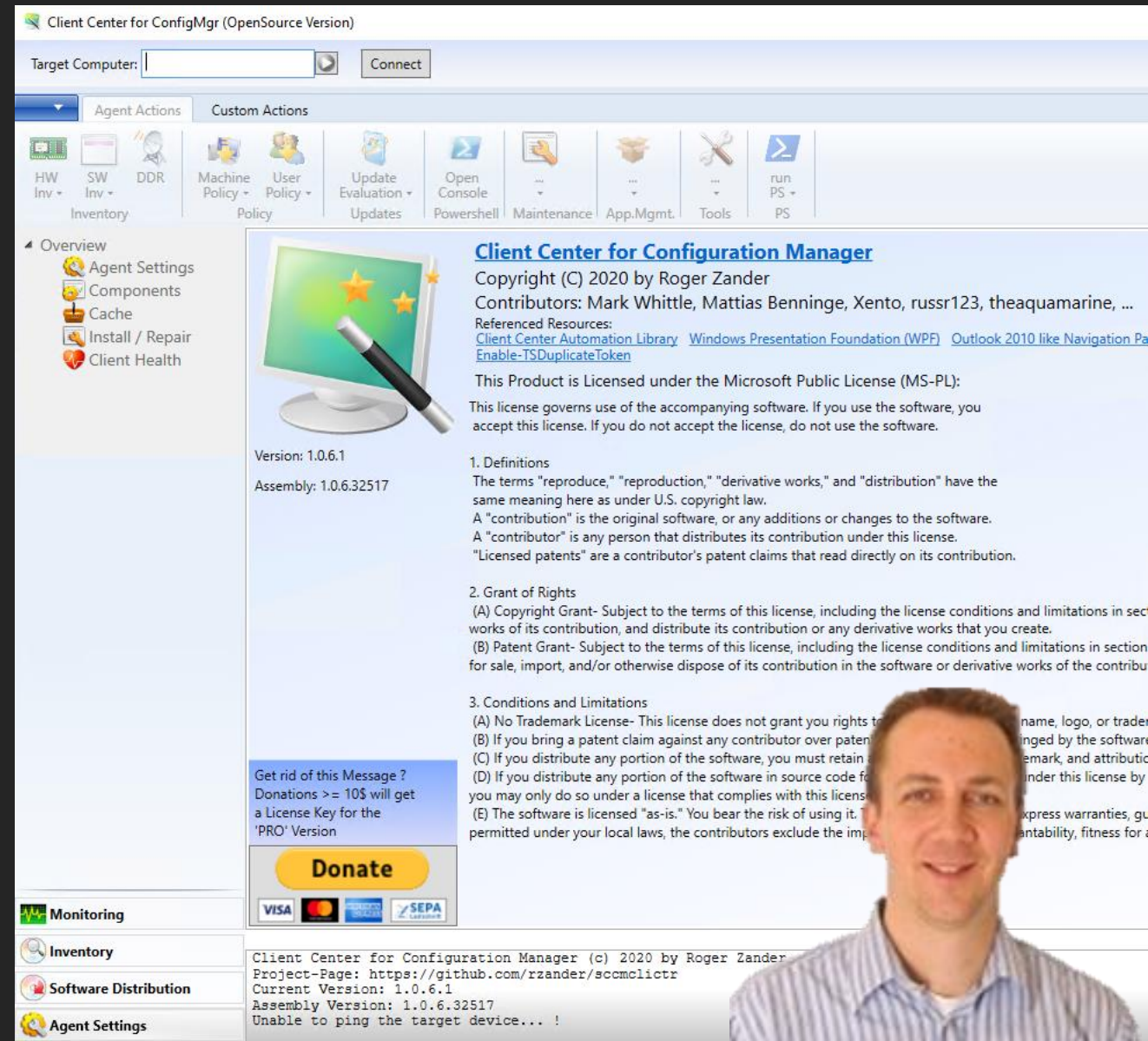


Client Center – Roger Zander

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

And everything else you can imagine ..(almost)

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



Client Center for ConfigMgr (OpenSource Version)

Target Computer:

Agent Actions Custom Actions

HW Inv SW Inv DDR Inventory Machine Policy User Policy Update Evaluation Updates Open Console Powershell Maintenance App.Mgmt. Tools run PS PS

Overview

- Agent Settings
- Components
- Cache
- Install / Repair
- Client Health

Client Center for Configuration Manager

Copyright (C) 2020 by Roger Zander

Contributors: Mark Whittle, Mattias Benninge, Xento, russr123, theaquamarine, ...

Referenced Resources:
[Client Center Automation Library](#) [Windows Presentation Foundation \(WPF\)](#) [Outlook 2010 like Navigation Pa](#)
[Enable-TSDuplicateToken](#)

This Product is Licensed under the Microsoft Public License (MS-PL):

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

Version: 1.0.6.1
Assembly: 1.0.6.32517

Get rid of this Message ?
Donations >= 10\$ will get a License Key for the 'PRO' Version

Donate

VISA MASTERCARD AMERICAN EXPRESS SEPA

Client Center for Configuration Manager (c) 2020 by Roger Zander
Project-Page: <https://github.com/rzander/sccmclctr>
Current Version: 1.0.6.1
Assembly Version: 1.0.6.32517
Unable to ping the target device... !

Monitoring
Inventory
Software Distribution
Agent Settings

ConfigMgr Task Sequence Monitor – Trevor Jones

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

CONFIGMGR TASK SEQUENCE MONITOR

CONFIGMGR

Task Sequence: Windows 11 Time Period (Hours): 24 ComputerName: W10TEST126 Errors Only: ☐ Error Count: 3 Refresh Period (Minutes): 1 **REFRESH NOW!**

MDT

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

Start: End: Elapsed: Percent Complete:

SETTINGS
GENERATE REPORT

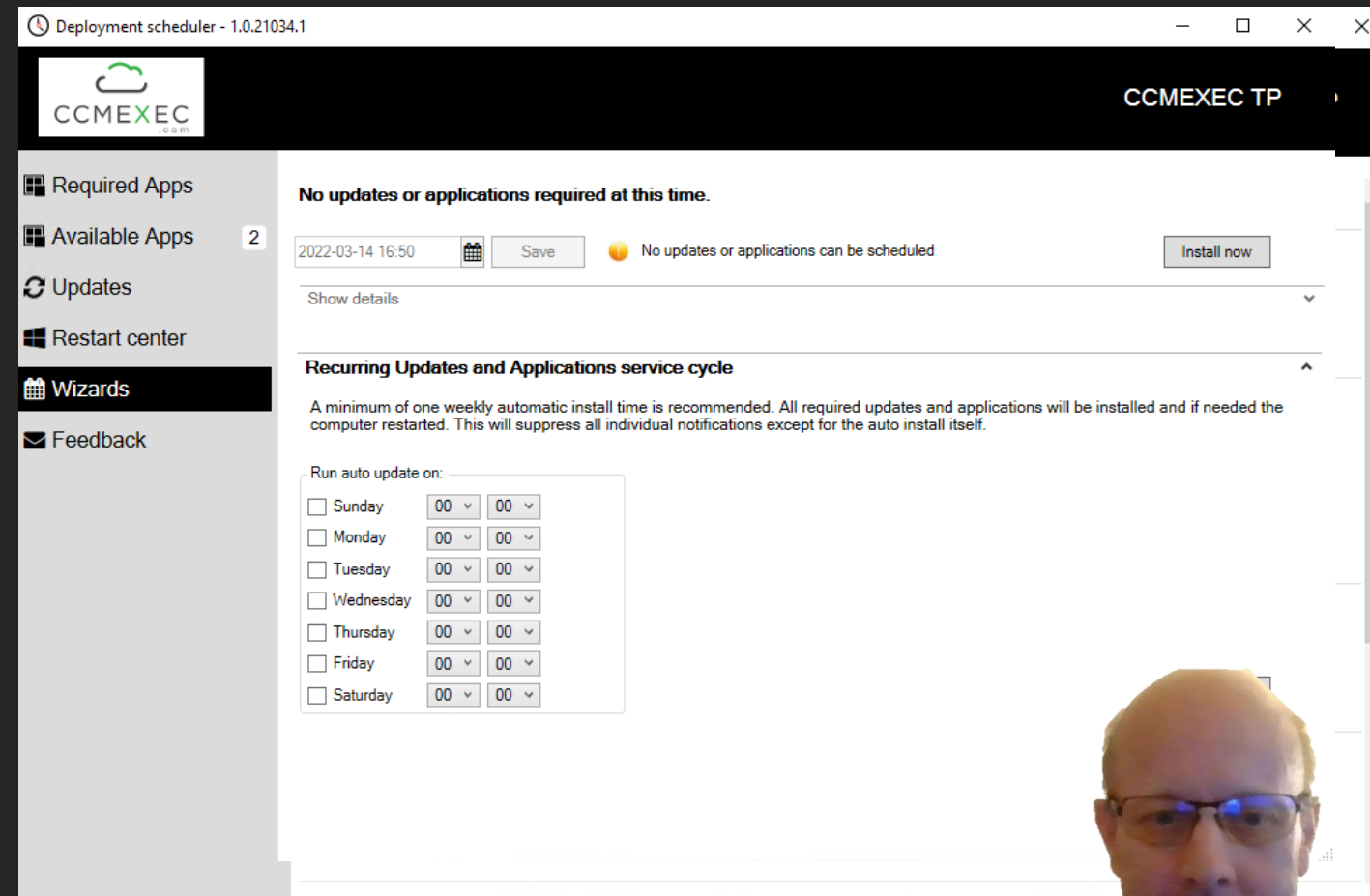
	COMPUTERNAME	EXECUTIONTIME	STEP	ACTIONNAME	GROUPNAME	LASTSTATUSMSGNAME	EXITCODE
✓	W10TEST126	3/14/2022 9:16:28 AM	58	Setup Windows and Configuration Manager	Setup Operating System	The task sequence execution engine performed a system reboot initiated by an action	0
✓	W10TEST126	3/14/2022 9:15:57 AM	58	Setup Windows and Configuration Manager	Setup Operating System	The task sequence execution engine successfully completed an action	0
✓	W10TEST126	3/14/2022 9:15:38 AM	57	CopyToHD	Setup Operating System	The task sequence execution engine successfully completed an action	0
✓	W10TEST126	3/14/2022 9:15:34 AM	0	CopyToHD			0
✓	W10TEST126	3/14/2022 9:15:34 AM	56		Setup Operating System	The task sequence execution engine started a group	0
✓	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	0
✓	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 was evaluated to be false	0
✓	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 was evaluated to be false	0
✓	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 was evaluated to be false	0
✓	W10TEST126	3/14/2022 9:15:34 AM	51	TSBStatus 02	Install Operating System	The task sequence execution engine successfully completed an action	0
✓	W10TEST126	3/14/2022 9:15:34 AM	50		Correct Missing Mouse Cursor	The task sequence execution engine successfully completed execution of a group	0
✓	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	0
✓	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	0
✓	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	0
✓	W10TEST126	3/14/2022 9:15:33 AM	46		Correct Missing Mouse Cursor	The task sequence execution engine started a group	0

Action Output:

Click any step to see the action output.

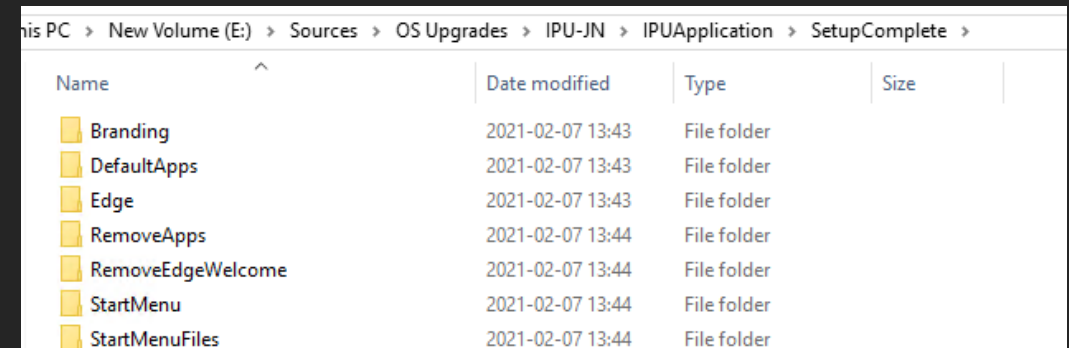
Deployment Sheduler - Johan Schrewelius

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



IPUInstaller - by Johan Schrewelius

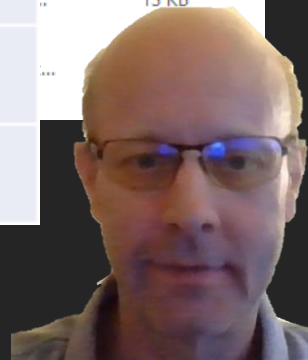
- DeploymentScheduler + IPUInstaller –
- Uses updated media
- Post commands
- Driver updates
- Errorhandling



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

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





Recycle Bin



Google Chrome



Microsoft Edge



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

Schedule

Postpone



Type here to search

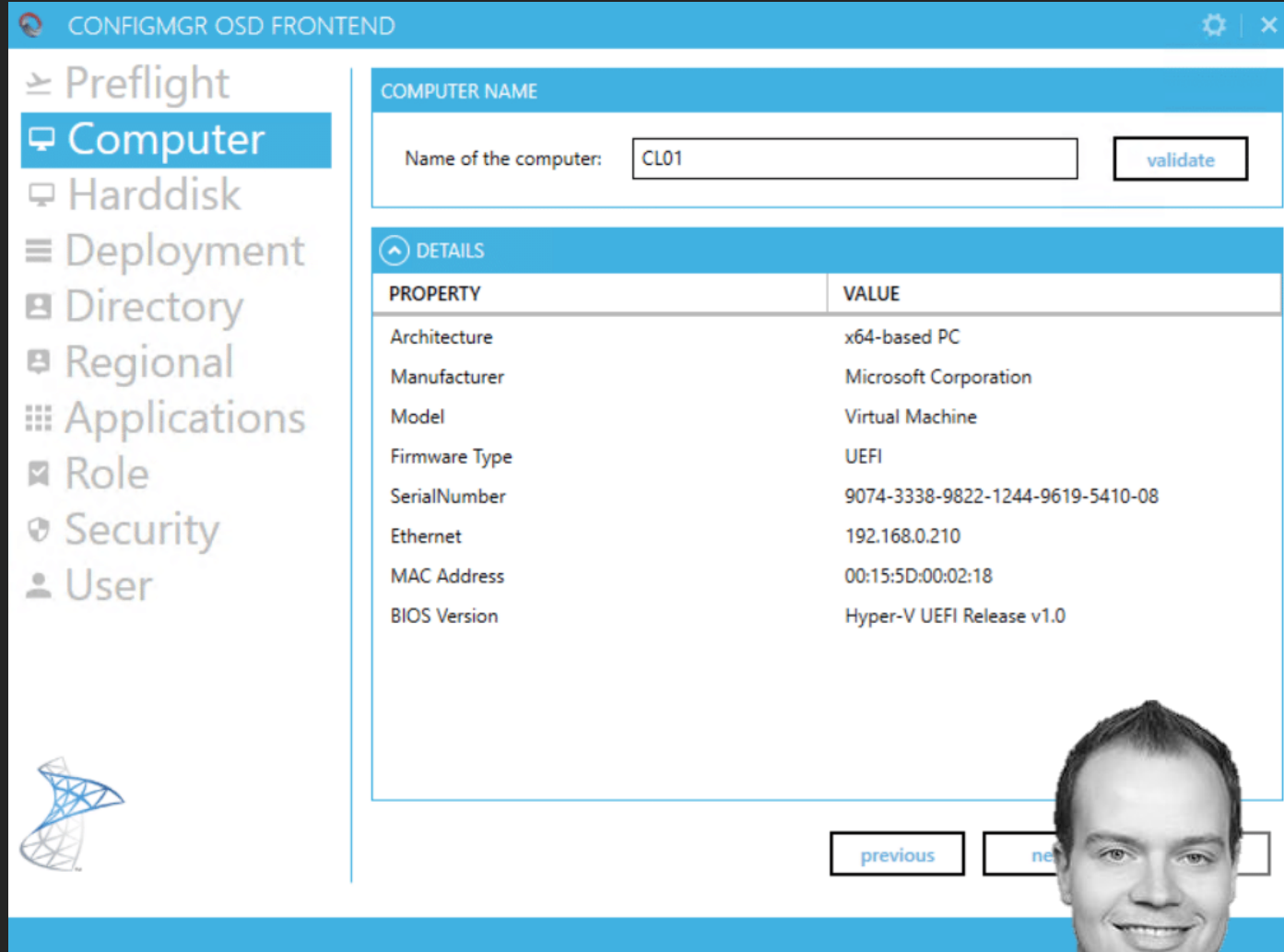


13:40
2021-03-18



ConfigMgr OSD Front end – Nickolaj Andersen

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

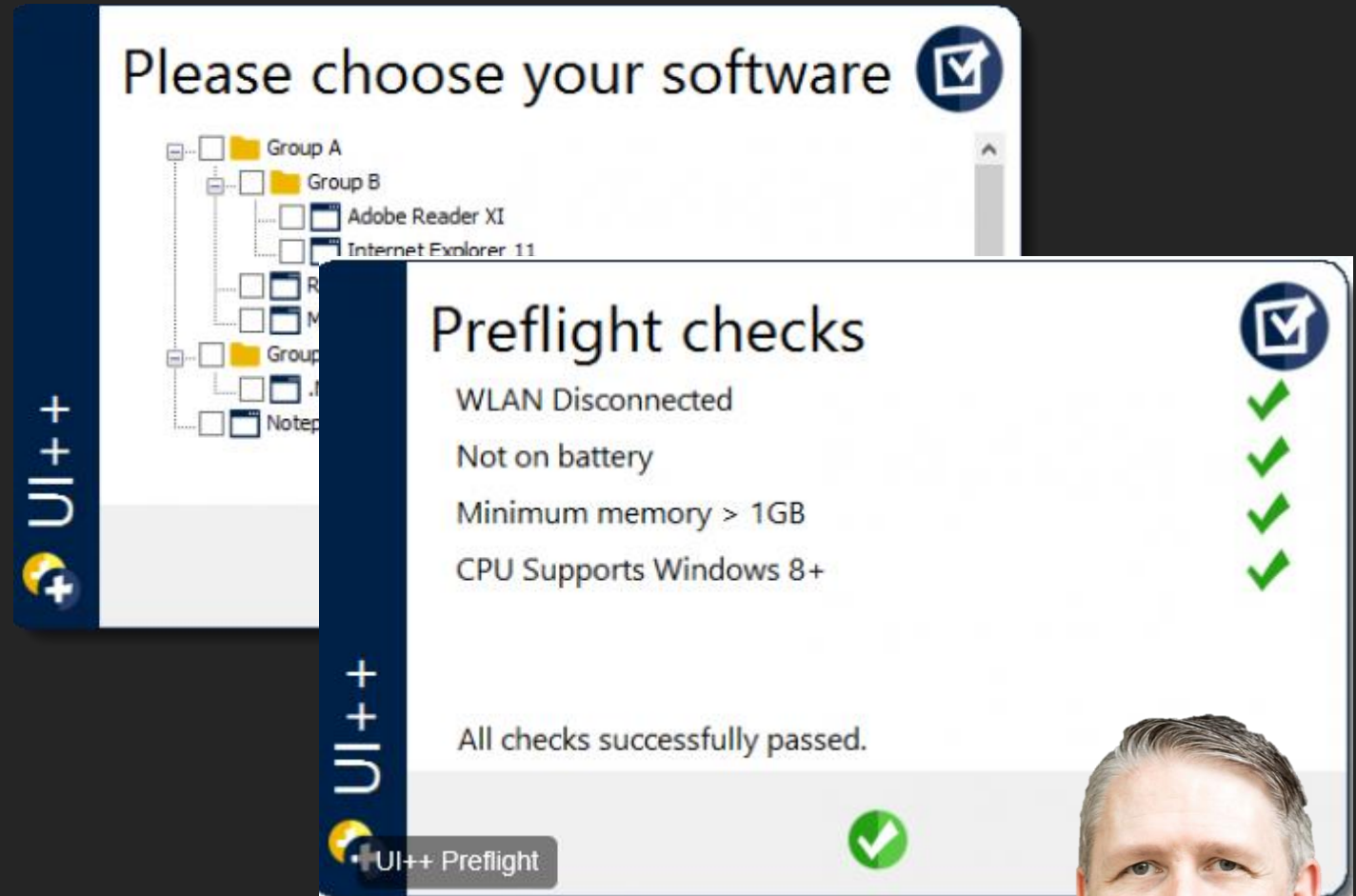


PROPERTY	VALUE
Architecture	x64-based PC
Manufacturer	Microsoft Corporation
Model	Virtual Machine
Firmware Type	UEFI
SerialNumber	9074-3338-9822-1244-9619-5410-08
Ethernet	192.168.0.210
MAC Address	00:15:5D:00:02:18
BIOS Version	Hyper-V UEFI Release v1.0



UI++ Jason Sandys

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



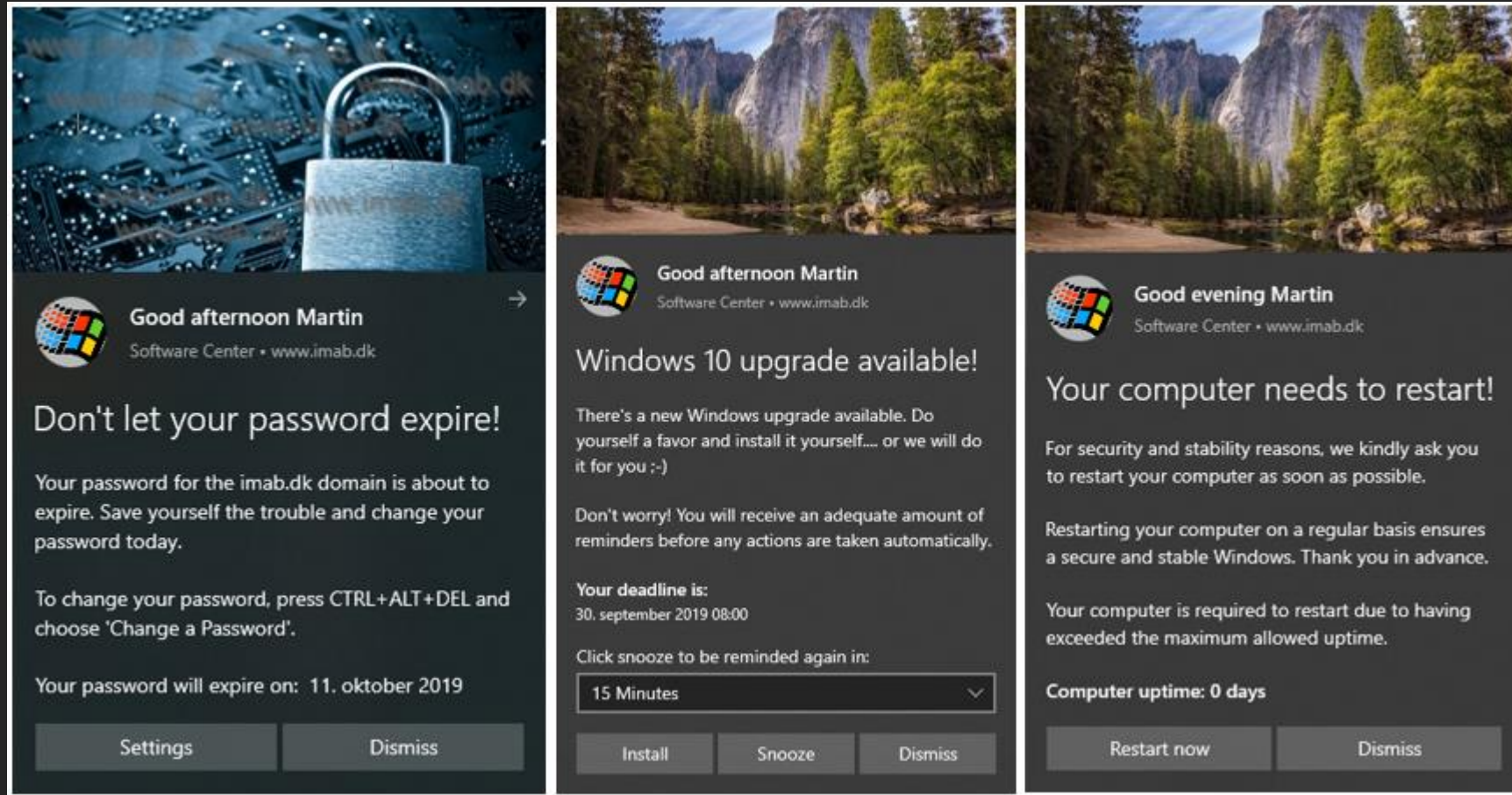
[UI++ \(configmgrftw.com\)](http://configmgrftw.com)



Community Tools

Microsoft Endpoint Manager (Intune + Configuration Manager)

Windows 10/11 Toast Notification



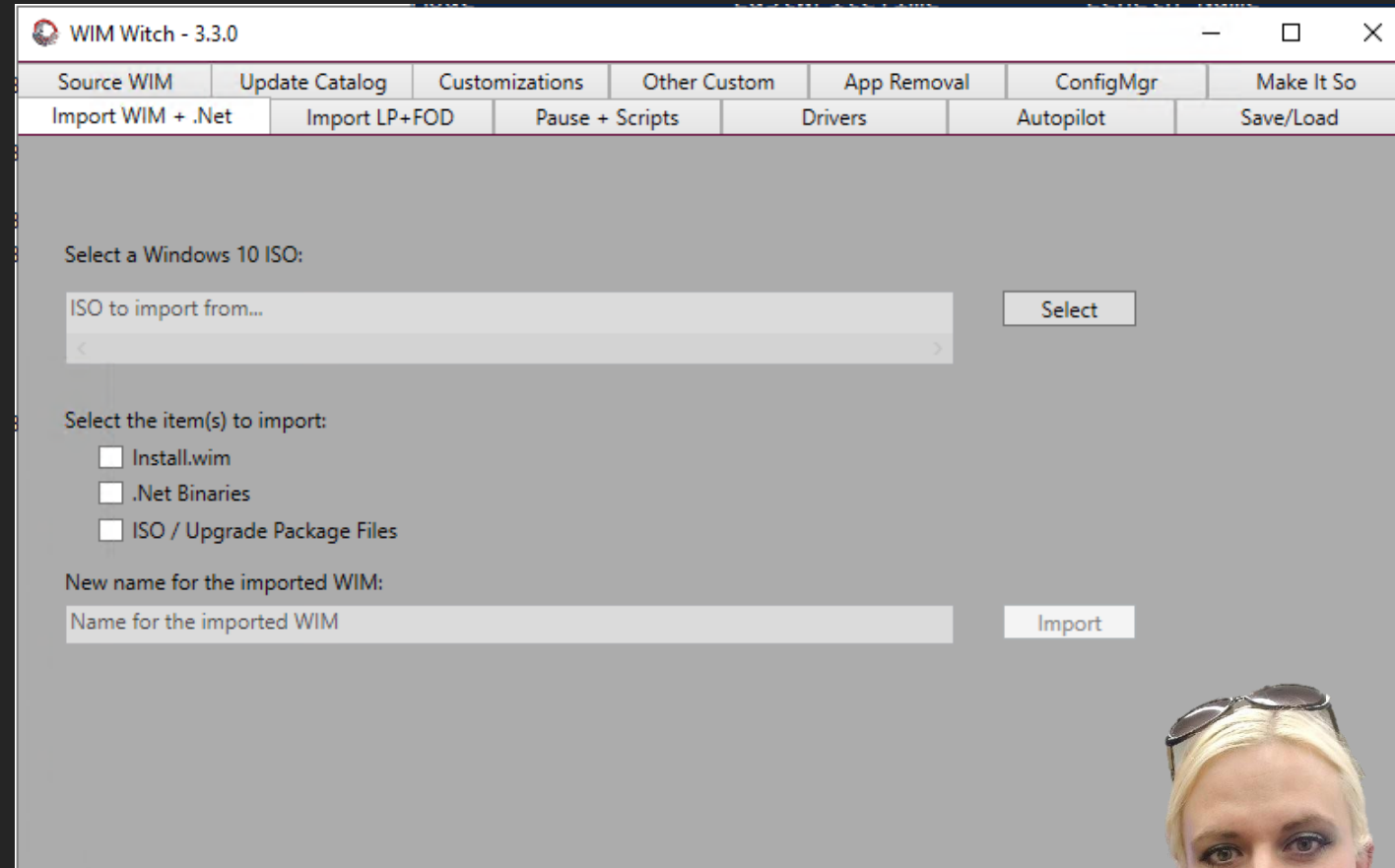
Martin Bengtsson, Microsoft MVP

<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....

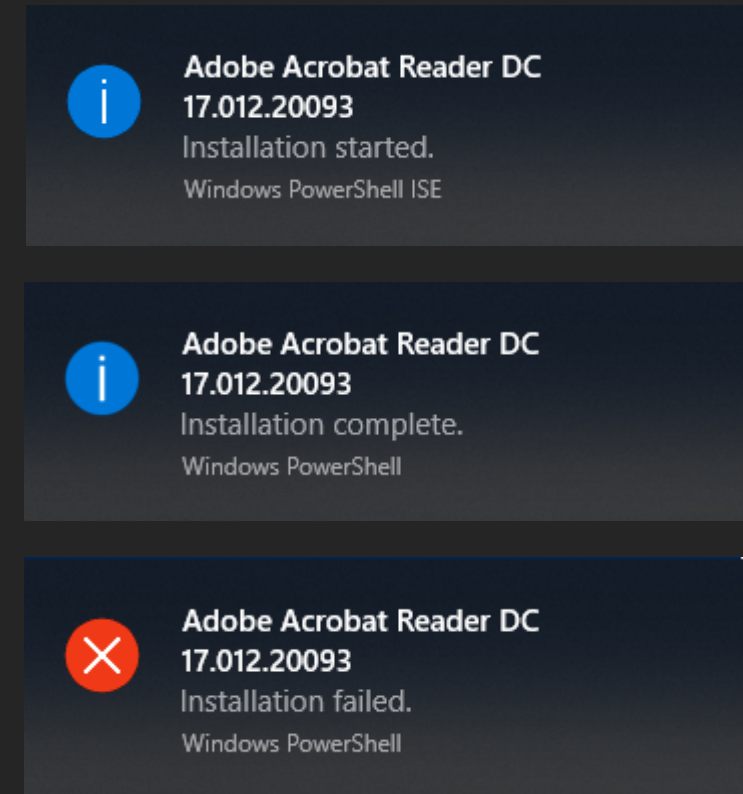
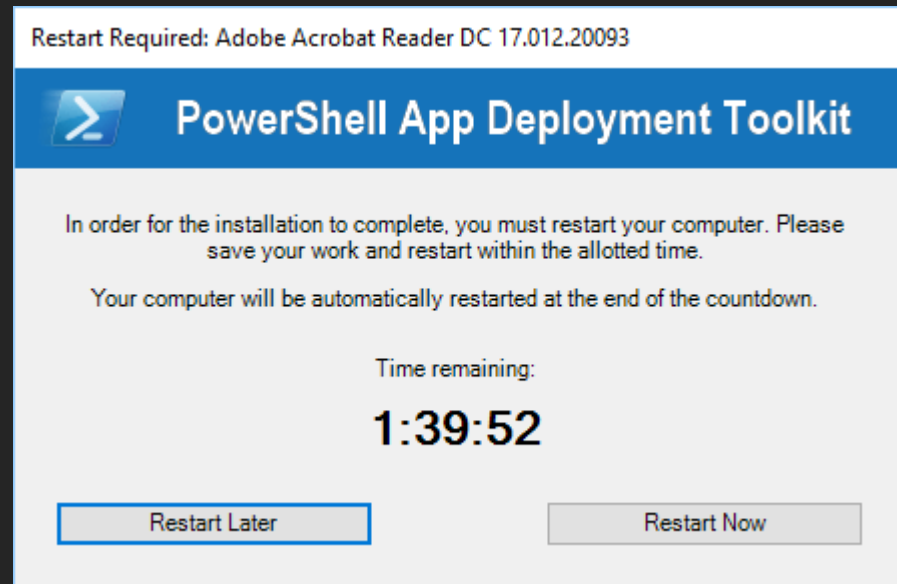
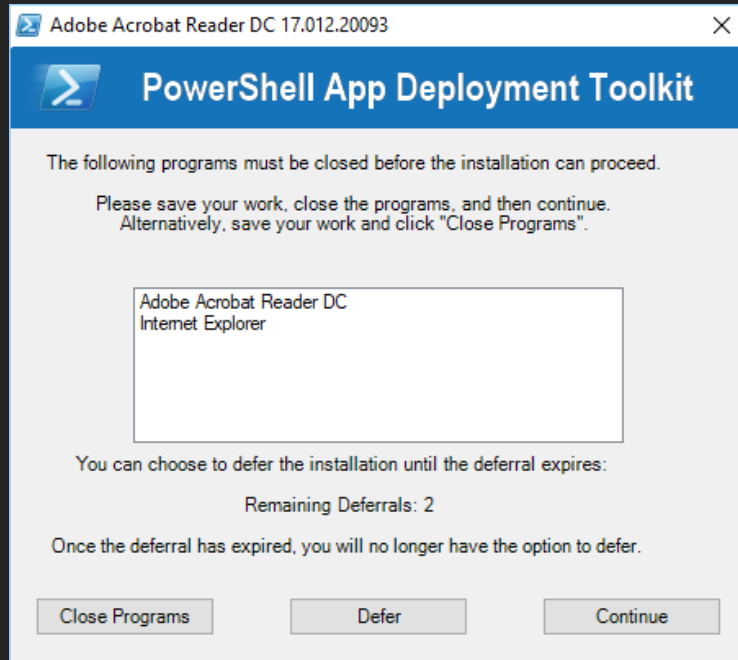


<https://www.scconfigmgr.com/2019/10/04/wim-witch-a-gui-driven-solution-for-image-customization/>



PowerShell App Deployment Toolkit

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



<https://psappdeploytoolkit.com/>

ConfigMgr Client Health – Anders Rödland

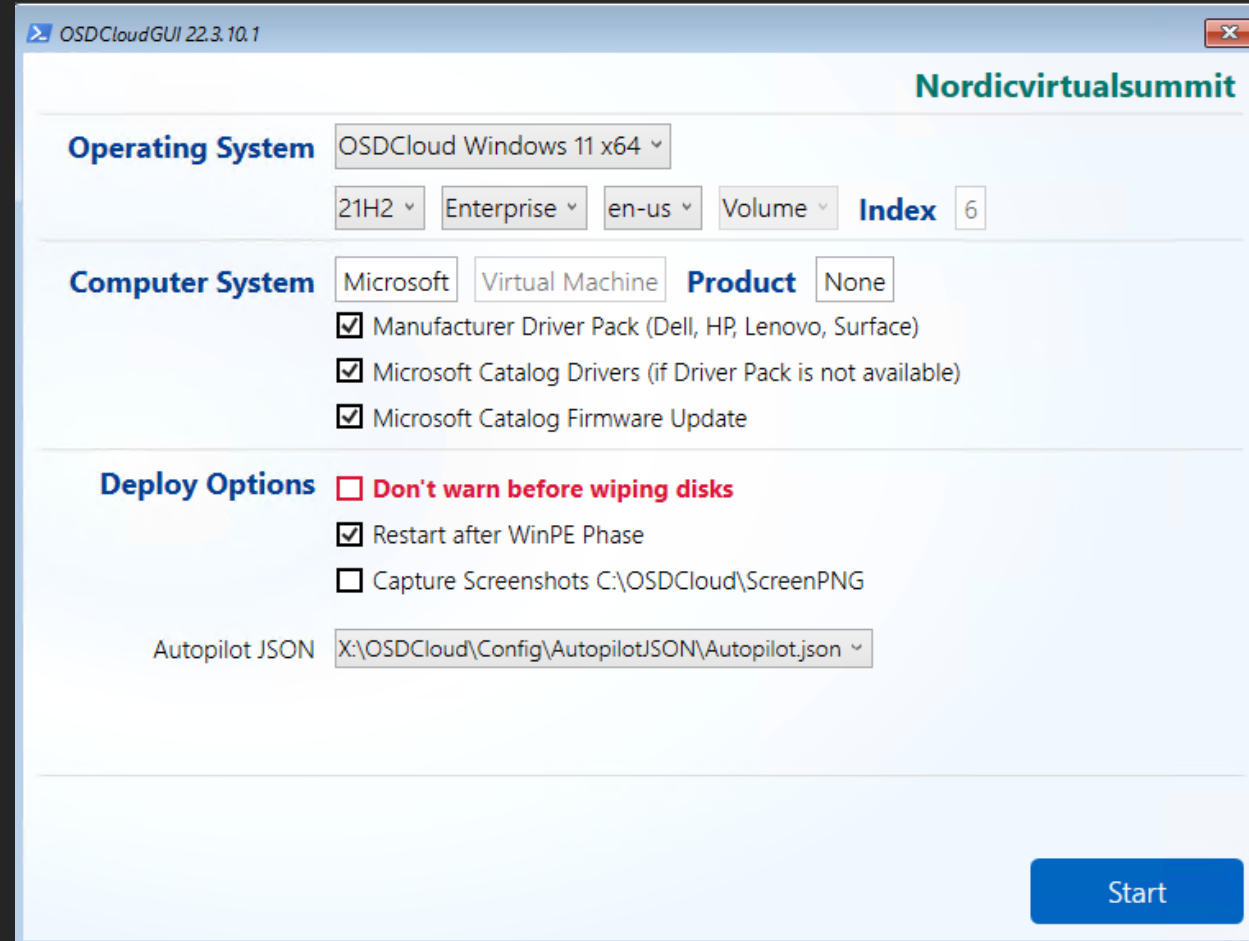
- Checks many components
- Optional remediation
- Logs to a SQL DB
- Reporting Services report
- Configuration Manager Console Integration

```
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
SMSTSMgr: 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 Prov
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
```

OSDCloud – David Segura

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

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



The screenshot shows the OSDCloudGUI 22.3.10.1 interface. The title bar reads "OSDCloudGUI 22.3.10.1". The main content area is divided into sections:

- Operating System:** A dropdown menu shows "OSDCloud Windows 11 x64". Below it are four more dropdowns: "21H2", "Enterprise", "en-us", and "Volume". To the right is an "Index" field with the value "6".
- Computer System:** Two dropdowns show "Microsoft" and "Virtual Machine". To the right is a "Product" dropdown showing "None". Below these are three checked checkboxes:
 - ☒ Manufacturer Driver Pack (Dell, HP, Lenovo, Surface)
 - ☒ Microsoft Catalog Drivers (if Driver Pack is not available)
 - ☒ Microsoft Catalog Firmware Update
- Deploy Options:** A red checkbox labeled "Don't warn before wiping disks" is unchecked. Below it are two checked checkboxes:
 - ☒ Restart after WinPE Phase
 - ☐ Capture Screenshots C:\OSDCloud\ScreenPNG
- Autopilot JSON:** A text field shows the path "X:\OSDCloud\Config\Autopilot\JSON\Autopilot.json".

A blue "Start" button is located at the bottom right of the interface.

A big thanks to our sponsors



RECAST SOFTWARE

Thank you!

Please remember to fill out the evals!

