PREVIEW.

By Nicklas Ahlberg and Mattias Melkersen

Sponsors

onedeploy
Windows Deployment Reimagined

ZERO TOUCH

Insight

control up

PATCH MY PC

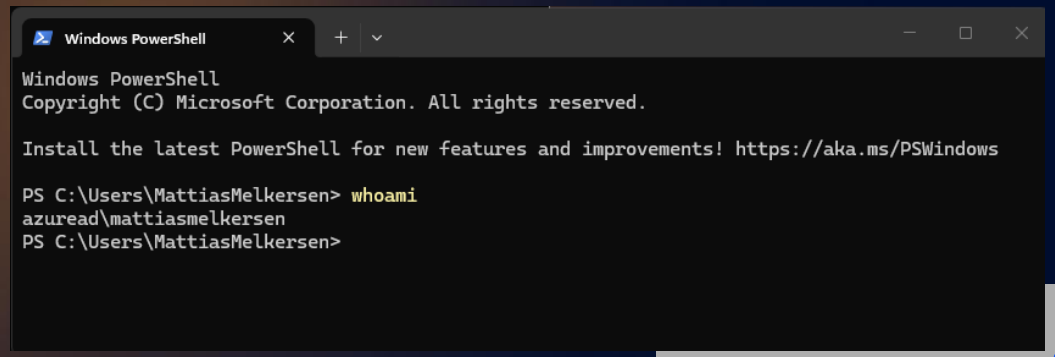
Rimo3

robopack

numecent

Microsoft

eido



MODERN ENDPOINT MANAGEMENT SUMMIT 2026

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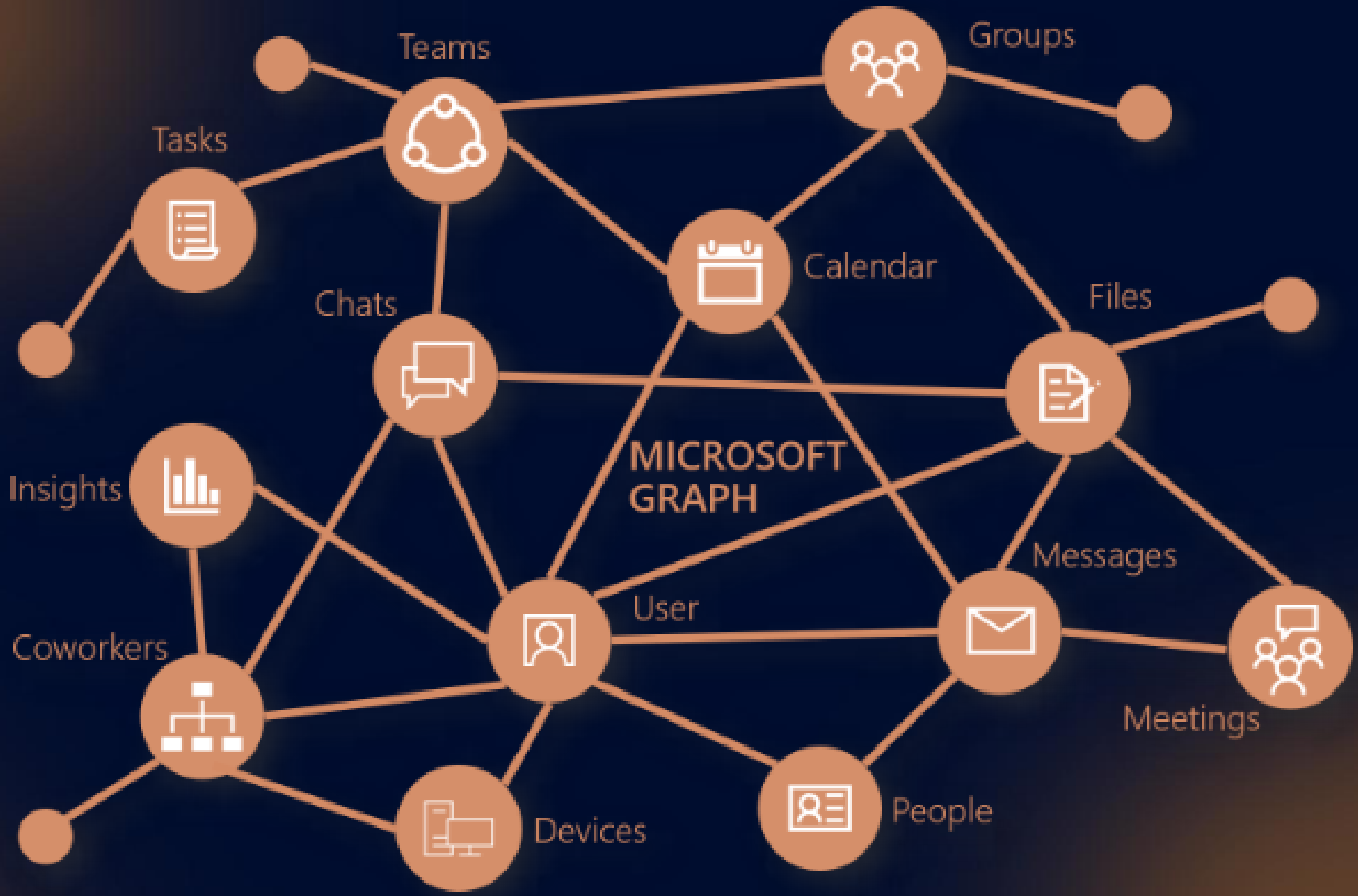
Microsoft Intune
PowerShell
Command Prompt
PS C:\> "Hello from PowerShell"



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Where do I start?

- Export platform scripts from Intune
- Save time on creating and uploading Win32 apps
- Upgrade Windows 11 to current and stay in control
- Unused groups or policies

F12 Developer Tools

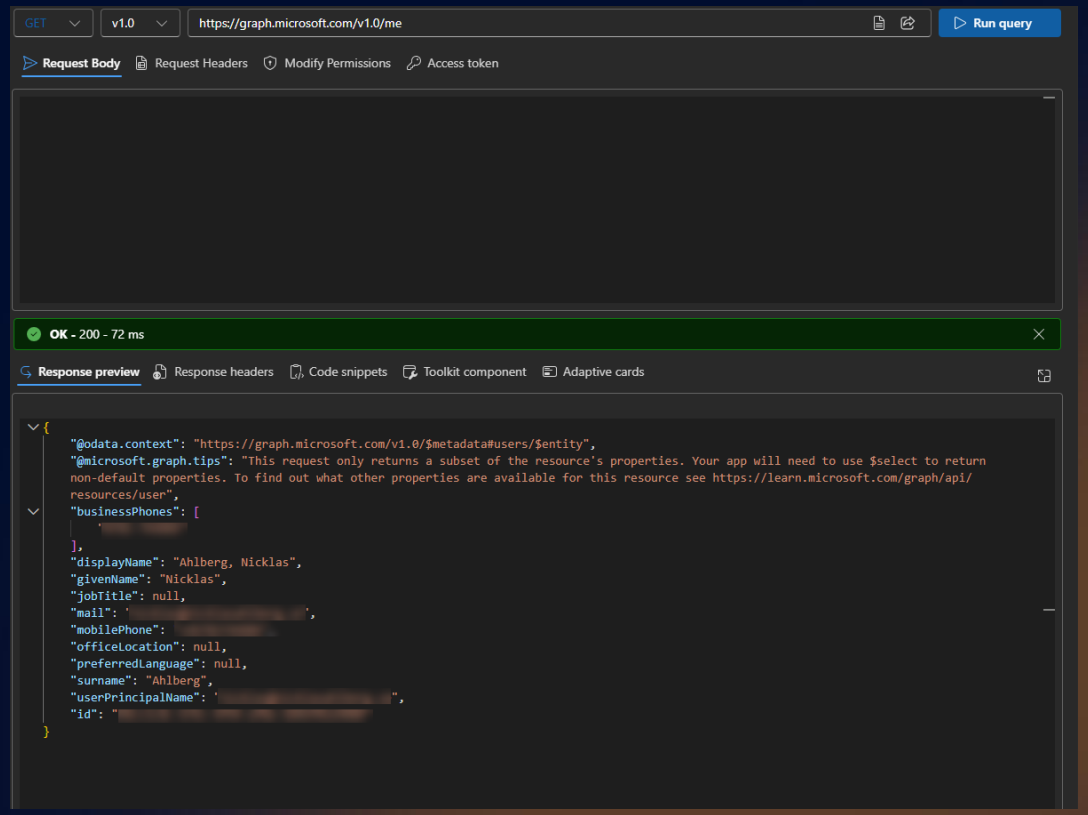
- Use the Intune portal to identify the API calls
  - Graph X-Ray is great 👏 Merill Fernando

Graph Explorer

- Identify the API call and use Graph Explorer for initial tests
- Works perfectly for small quick/tasks

... and for testing

💡 aka.ms/GE



Microsoft Graph **v1.0**

- All API sets are in general availability status
- Upcoming API updates are announced beforehand

Microsoft Graph **BETA**

- This endpoint generates waaaay richer results
- Upcoming updates could break your current scripts

PowerShell: why?

- Combine data from different sources
- Create reports
- Decode BASE64 payloads

Example:

Identify stale objects and corresponding BitLocker and WLAPS password before deletion…

Or create a good-looking report with exactly the data and format you need.

DEMO

- Windows LAPS
  - F12 dev tools
  - Graph Explorer
- v1 vs BETA

Microsoft

PowerShell: The True Hero


THE NAME'S POWERSHELL.
THE LEGENDS ARE TRUE*! THE POWERFUL SHELL THAT WILL ENSURE SAFE PASSAGE TO THE CLOUD!
BUT HOW?
THAT'S A HECK OF AN INTRO! PUTS MINE TO SHAME, EH?
I'VE LONG BATTLED SHADOW I.T., AND HAVE BEEN MONITORING YOUR SITUATION FROM MY COMMAND CENTER. YOU NEED MY HELP.
OUR BITEY LITTLE FRIENDS COULD LEARN TO MIND THEIR MANNERS! BUT OTHER THAN THAT...
HOW DO WE STOP THAT THING?
I'VE LEARNED THE WISDOM OF THOSE BEFORE US—AND UNLOCKED THE TOOLS THAT CAN DEFEAT SHADOW I.T.

PowerShell: how?

- Use PowerShell to execute the API calls
- Great for more advanced scenarions such as creating reports
- BASE64 decoding

💡 PowerShell modules are great but **not** always required

DEMO

- Dad jokes!
- JWT

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Some of our greatest PS tips:

- Less is more
- Hash tables
  - PSCustomObject
  - Modules: Only when necessary
  - NextLink
  - Throttling

Windows LAPS history

- The portal will only show the current password
- There are scenarios where we need old passwords

Intune Win32 Apps

- Use PowerShell to wrap and upload Win32 apps. Supports icon ⭐
- Huge time saver!!

Author: Nickolaj Andersen

TPM / Hardware info

- Use Graph to identify TPM manufacturer.
- Known issue with RSA 3072bit
- Nuvoton and ST Micro

TPM attestation isn't working for TPMs which use high-range RSA 3072EK

Date added: *April 4, 2025*

Platforms with TPMs which use high-range RSA 3072EK might fail TPM attestation. This failure impacts Windows Autopilot pre-provisioning and Windows Autopilot self-deploying flows. The issue is being investigated.

Custom Compliance Script and JSON payload

- Custom compliance requires an inventory script and JSON for validation
- Standard compliance policies doesn't measure the running value 👎

```powershell
$devGuard = Get-CimInstance -ClassName Win32_DeviceGuard -Namespace root\Microsoft\Windows\DeviceGuard

# Firewall
$domainFW = Get-NetFirewallProfile | Where-Object { $_.Name -eq 'Domain' }
$publicFW = Get-NetFirewallProfile | Where-Object { $_.Name -eq 'Public' }
$privateFW = Get-NetFirewallProfile | Where-Object { $_.Name -eq 'Private' }

# Run checks and store results in hashtable
$hashTable = @{
    "CredentialGuardRunning" = ($devGuard.SecurityServicesRunning -contains 1)
    "MemoryIntegrityRunning" = ($devGuard.SecurityServicesRunning -contains 2)
    "VBSRunning"             = ($devGuard.VirtualizationBasedSecurityStatus -contains 2)
    "DomainFirewallEnabled"  = ($domainFW.Enabled -eq 'True')
    "PublicFirewallEnabled"  = ($publicFW.Enabled -eq 'True')
    "PrivateFirewallEnabled" = ($privateFW.Enabled -eq 'True')
    "SecureBootEnabled"      = (Confirm-SecureBootUEFI)
}

Return $hashTable | ConvertTo-Json -Compress
```

Device mapping, based upon primary user
Yes, please!

- Dividing devices into groups could be hard while not using a device name prefix
- If we know where the user belongs, we could use that to tag devices with extensionAttributes

```
[2026-04-20 12:50:15] [INFO] ============================================================
[2026-04-20 12:50:15] [INFO]   SUMMARY REPORT
[2026-04-20 12:50:15] [INFO] ------------------------------------------------------------
[2026-04-20 12:50:15] [INFO]   Runtime                    : 1755s
[2026-04-20 12:50:15] [INFO]   Site groups discovered     : 201
[2026-04-20 12:50:15] [INFO]   Sites processed            : 128
[2026-04-20 12:50:15] [INFO]   Sites skipped              : 73  (no devices found or token refresh failed)
[2026-04-20 12:50:15] [INFO] ------------------------------------------------------------
[2026-04-20 12:50:15] [INFO]   Group members found        : 12239
[2026-04-20 12:50:15] [INFO]   Windows devices found      : 8936
[2026-04-20 12:50:16] [INFO]   Attributes already correct : 10
[2026-04-20 12:50:16] [INFO]   Attributes updated         : 8918
[2026-04-20 12:50:16] [INFO]   No Entra object found      : 8
[2026-04-20 12:50:16] [INFO]   Device processing errors   : 0
[2026-04-20 12:50:16] [INFO] ------------------------------------------------------------
[2026-04-20 12:50:16] [INFO]   MDE tagging                : DISABLED
[2026-04-20 12:50:16] [INFO] ------------------------------------------------------------
[2026-04-20 12:50:16] [INFO]   Dynamic device groups      : DISABLED
[2026-04-20 12:50:16] [INFO] ============================================================
[2026-04-20 12:50:17] [INFO] === Script finished ===
```

Configuration as code

- Less clicks, more testing… let's focus on the correct stuff
- Check in policies, create backups and just enjoy your day to day

```
[17/18] Settings Catalog/Level 2/CIS (L2) Section 12 - 98 - Windows 11 Intune 4.0.0.json
        CIS (L2) Section 12 - 98 - Windows 11 Intune 4.0.0
[16:42:53] Exists in tenant (id: 995d15d2-7218-4599-8d11-f4849423410d)
[16:42:53] - No changes detected - policy is up to date

[18/18] Settings Catalog/Bitlocker/CIS (BL) BitLocker - Windows 11 Intune 4.0.0.json
        CIS (BL) BitLocker - Windows 11 Intune 4.0.0
[16:42:53] Exists in tenant (id: d29ca6b2-54a2-4ce0-a8cd-aa34d36660c9)
[16:42:53] - No changes detected - policy is up to date
Run Summary

──────────────────────────────────────────────────────────────────────

  Run Summary

──────────────────────────────────────────────────────────────────────

    Runtime           8s
    Files processed   18
    Created           0
    Updated           0
    Skipped           18
    Failed            0

[16:42:53] v Deployment complete
```

Scope tags... Huge manual work!

St

- In
b
- T
w
- If
u
- E
t

Version	Servicing option	Availability date	End of updates: Home, Pro, Pro Education, and Pro for Workstations	End of updates: Enterprise, Education, IoT Enterprise, and Enterprise multi-session	Latest update for ESU	Latest revision date	Latest build
25H2	General Availability Channel	2025-09-30	2027-10-12	2028-10-10	2026-01 D	2026-01-29	26200.7705
24H2	General Availability Channel	2024-10-01	2026-10-13	2027-10-12	2026-01 D	2026-01-29	26100.7705
23H2	General Availability Channel	2023-10-31	End of updates	2026-11-10	2026-01 OOB	2026-01-24	22631.6495

Windows feature updates

- The eco system of Microsoft requires us to stay current to ensure we stay supported.

- The only constant is that we know we have to move.
- For Windows that means new features introduced, old deprecated.

- When new features are introduced, we as admins needs to know about them and take action. The same needs to happen to have a clean environment that keeps being healthy and simpler to manage.

- Where do we start?

Windows feature updates technology

- To stay current, we have multiple options available.
- Autopatch
- Windows update for business
- WSUS

API management to Windows Update for Business deployment services

PowerShell is the answer to many things

Security Features

TPM Present	True
TPM Enabled	True
TPM Version	2.0, 0, 1.38
SecureBoot Enabled	Enabled
Virtualization-Based Security	Enabled
Device Guard Status	Running
Credential Guard Status	Enabled with UEFI lock
HVCI (Memory Integrity)	Disabled

0 Event Log Errors

0 Event Log Warnings

0 Intune Log Errors

0 Intune Log Warnings

266 AppX Packages

22 Enabled Features

111 Disabled Features

233 Installed Programs

185 Intune MDM Policies

340 Windows Services

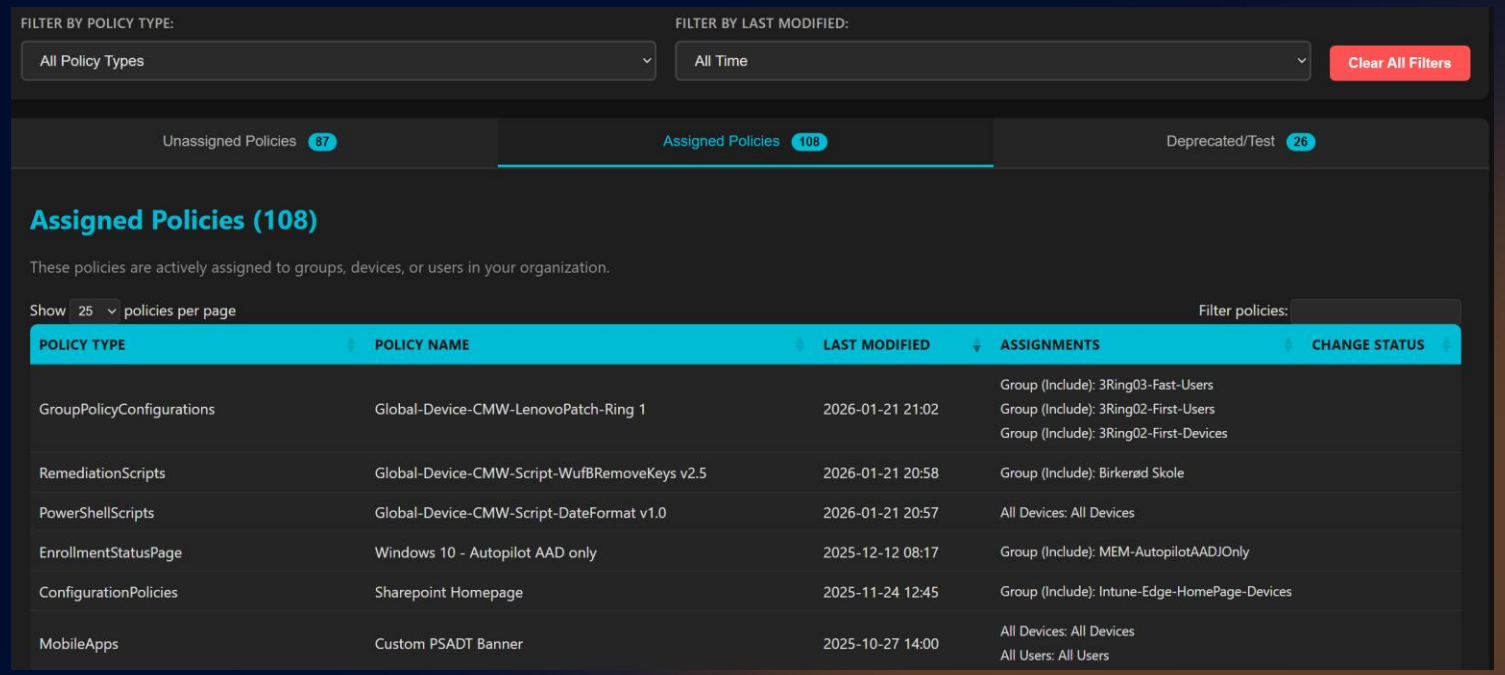
295 Scheduled Tasks

260 Installed Drivers

SecureBoot Enabled

Control your Intune environment

- Do you have full control of your environment?
- Some will say, YES, but our bet is that most have already started to build up technical dept, just as we did with good old GPO’s.



DEMO

- Windows 11 23H2 -> 25H2
- Intune TOTAL control.

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We would love to hear what you liked and how we could improve!

Thanks!