

Welcome!!

To Modern Endpoint Management Webinar 2023

Automations with PowerShell and Graph API



MODERN
ENDPOINT
MANAGEMENT
 **SERIES**

Speakers at the session



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Cloud Consultant & MVP



@FlorianSLZ



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Senior System Engineer & MVP



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Agenda



The Increasing Importance of Automation



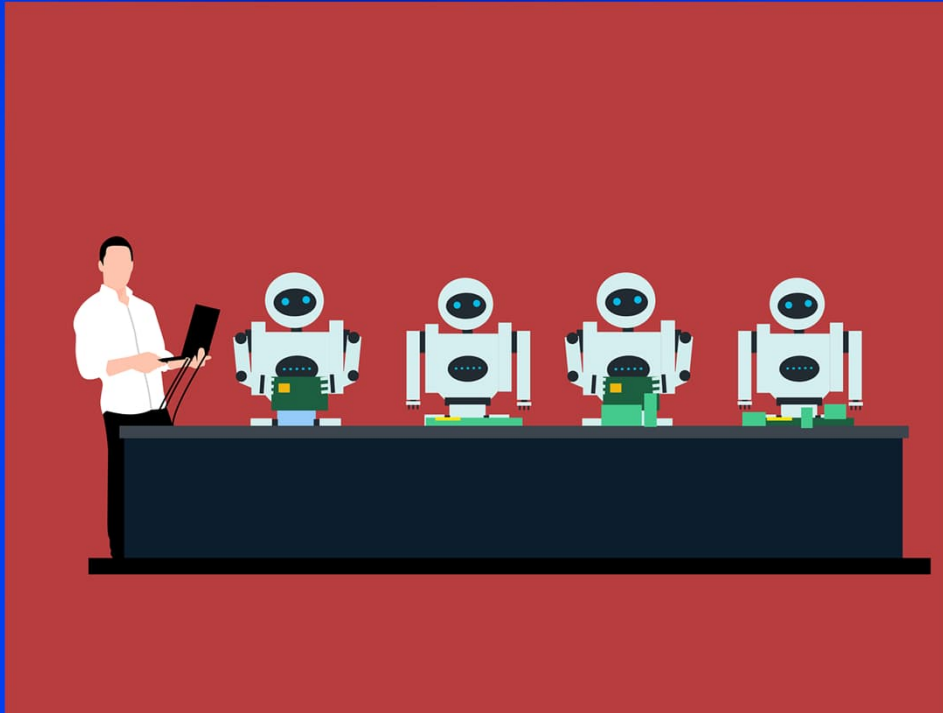
Data Collection, Export, and Trigger Actions



Executing Automations



Practical Examples & Demo



The increasing importance of Automation

Data Collection, Export, and Trigger Actions



Data Warehouse



Graph API



Log Analytics



Custom Sources &
API's



Endpoint Analytics



Manual

Easy start with Automations

MS Graph



PowerShell



App Registration /
Managed Identity



Azure Automation



Practical Examples





DETECT ERRORS FROM INTUNE ASSIGNMENTS: HOW TO EXPORT ALL ERRORS



<https://jannikreinhard.com/>

Detect Errors from Intune Assignments

Function

- Get and Send Assignment errors in a CSV

Graph Calls

- *deviceManagement/deviceConfigurations*
- *deviceAppManagement/mobileApps*

Platform

- Manual
- Azure Automation + App Registration
- Mail

	A	B	C	D	E
1	deviceDisplayName	userPrincipalName	status	lastReportedDateTime	ProfileName
2	PC-WS-0015	michael@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-Updates
3	PC-SHARED-0026	dwright@dev.scloud.work	error	2023-02-14T09:17:53.5835906Z	WIN-Wifi-Office
4	PC-EDU-WS-0015	michael@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-HealthDiagnostics
5	PC-EDU-WS-0015	michael@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-Allgemein
6	PC-WS-0015	angela@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-Autopilot
7	PC-WS-0015	angela@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-HealthDiagnostics
8	PC-WS-0058	kevin@dev.scloud.work	error	2023-05-22T13:06:23.9221553Z	WIN-SharedMode-OneDrive
9	PC-NB-0168	System account	error	2023-05-22T13:50:02.8608652Z	WIN-Updates
10	PC-NB-0075	System account	error	2022-11-04T12:40:19.1965962Z	WIN-Updates

SCLoud-SAF / FlorianSalzmann

General Informations

Uptime 01/03/2023 04:33:09
 enrollment Yes
 Hostname SCLoud-SAF
 Device Ownership Corporate
 User AzureAD\FlorianSalzmann
 IME Running
 OS 10.0.22621.0 / 22H2

Network Informations

IPAddress : fe80::de61:b82:14b2:3315%19
 InterfaceAlias : vEthernet (WAN)
 PrefixOrigin : WellKnown

IPAddress : fe80::7135:82e:68a:5bd8%25

InterfaceAlias : vEthernet (WAN)

IPAddress : 169.254.66.91
 InterfaceAlias : Bluetooth Network Connection
 PrefixOrigin : WellKnown

IPAddress : 127.0.0.1
 InterfaceAlias : Loopback Pseudo-Interface 1
 PrefixOrigin : WellKnown

Local Group Memberships

Everyone
 BUILTIN\Users
 NT AUTHORITY\INTERACTIVE
 CONSOLE LOGON
 NT AUTHORITY\Authenticated Users
 NT AUTHORITY\This Organization
 LOCAL
 NT AUTHORITY\Cloud Account Authentication

See less

Submit support info to Teams channel

Function

- Send Support Info's from Endpoint to Teams Channel

Graph Calls

- None ;)
- Just some WMI and Registry queries

Platform

- Manual trigger, locally
- Teams



GET AN DAILY MDM DEVICE REPORT WITH LOGIC APP



Intune Status 8:55 AM

Dear MDM Team,
attached your daily report:

- Total devices: 24
- Mdm enrolled: 24
- Hybrid enrolled: 0

Per device group:

- Windows: 20
- Android: 1
- iOS: 2
- MacOS: 1

← Reply

Daily Device Report

Function

- Get a daily Device overview based on enrollment type and Platform

Graph Calls

- *deviceManagement/managedDeviceOverview*

Platform

- Logic App + App Registration
- Mail or Teams

Automated Intune Enrollment

```
Administrator: Windows PowerShell
PS C:\Users\WDAGUtilityAccount> Connect-ISK
Welcome To Microsoft Graph!
PS C:\Users\WDAGUtilityAccount> Add-ISK
Dynamic Autopilot group created: DEV-WIN-Autopilot
Security group for assignments created: DEV-WIN-Standard
Added "DEV-WIN-Autopilot" as a Member of "DEV-WIN-Standard".
Autopilot profile created: Default ISK Profile
Enrollment Status Page (ESP) profile created: Autopilot ESP
Configuration imported:
WIN-Autopilot
WIN-HealthMonitoring
WIN-BasicRequirements
WIN-disableFastBoot
WIN%20DefenderAV_EXCLUSIONS
WIN-DefenderAV
WIN-DefenderFirewall
WIN-DefenderSecurityExperience
WIN-MSEdge
WIN-OneDrive
WIN-OutlookSeamlessSetup
Apps imported:
Bloatware-Removal_Windows
MS Apps Business EN
Done. Your Intune environment is ready!
PS C:\Users\WDAGUtilityAccount>
```

Function

- Deploy a complete Intune environment with Profiles and Apps

Graph Calls

- *A lot ;)*

Platform

- Locally

Demo

Weekly Inactive Device Report



Conclusion





[Download Presentation](#)

Thank you

Stay tuned for our
next webinars!



Topics and dates will be announced in the group and on this LinkedIn event.