

# Welcome!!

To Modern Endpoint Management Webinar 2023

## Automations with PowerShell and Graph API



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## Speakers at the session



Florian Salzmann

Cloud Consultant & MVP



@FlorianSLZ



Jannik Reinhard

Senior System Engineer & MVP



@jannik\_reinhard



# Agenda



**The Increasing Importance of Automation**



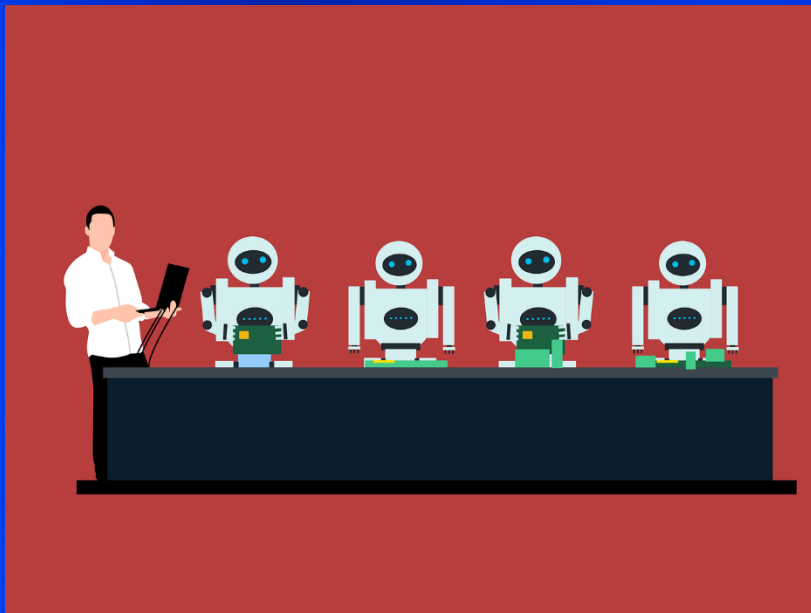
**Data Collection, Export, and Trigger Actions**



**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

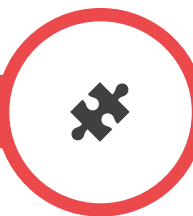
MS Graph



PowerShell



App Registration /  
Managed Identity



Azure Automation



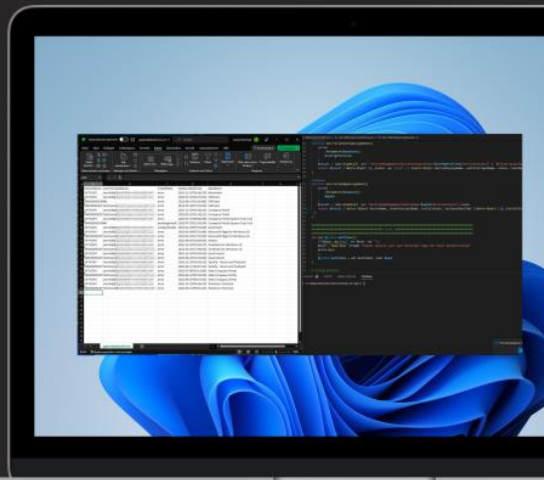
# Practical Examples



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# 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	dwight@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	Svstem account	error	2022-11-04T12:40:19.1965962Z	WIN-Updates



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## 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::7135:4b2:14b2:3315%25
-----------	-------------------------------

PrefixOrigin	: WellKnown
--------------	-------------

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



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# Conclusion



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[Download Presentation](#)

# Thank you

Stay tuned for our  
next webinars!



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