

Better together: System Center ConfigMgr and Microsoft Azure



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Podcast



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Better together: System Center ConfigMgr and Microsoft Azure



@seklenk

ConfigMgr und Azure?

■ Conditional Access

■ PowerBI

■ Azure Infrastruktur

■ Updates and Services

■ Cloud-Based Distribution Points

■ Azure Automation

■ Cloud Management Gateway

■ Operations Management Suite

■ Windows Store for Business

■ Microsoft Intune

■ Health Attestation

■ Internet Connected Clients

■ Asset Intelligence

■ Upgrade Analytics

■ Windows Defender ATP

Azure Infrastruktur

Jeder will in die Cloud...

ConfigMgr in Azure Virtual Machines

Szenario 1: ConfigMgr in Azure VMs betreiben und Clients in anderen Azure VMs verwalten.

Szenario 2: ConfigMgr in Azure VMs betreiben und Clients verwalten die nicht in Azure betrieben werden.

Szenario 3: Ausführen verschiedener ConfigMgr Rollen in Azure VMs, während andere Rollen im On-Premises Netzwerk betrieben werden.

ConfigMgr in Azure Virtual Machines

Einschränkungen für Azure VMs:

Dynamic Host Configuration Protocol

Hyper-V

Rights Management Services

WDS

Direct Access

BitLocker für OS

Internet Storage Name Server

Multipath I/O

Network Load Balancing

Peer Name Resolution Protocol

SNMP Services

Storage Manager for SANs

Windows Internet Name Service

Wireless LAN Service

ConfigMgr 2012 SP1 in Azure VMs

ConfigMgr On-Premises zur Verwaltung von Azure VMs	Single Stand-Alone Primary Site in Azure VM
<p>Windows Server:</p> <ul style="list-style-type: none">• Application Management• Compliance Settings• Endpoint Protection• Inventory – Software, Hardware, Asset Intelligence• Network Access Protection• Software Update Deployment• Software Metering• Remote Control• Reporting	<p>Windows Server:</p> <ul style="list-style-type: none">• Application Management• Compliance Settings• Endpoint Protection• Inventory – Software, Hardware, Asset Intelligence• Software Update Deployment• Software Metering• Remote Control• Reporting
<p>Linux:</p> <ul style="list-style-type: none">• Software Distribution• Endpoint Protection• Inventory – Hardware, Software• Reporting	<p>Linux:</p> <ul style="list-style-type: none">• Software Distribution• Endpoint Protection• Inventory – Hardware, Software• Reporting

Distribution Points

in der Cloud...

Cloud-Based Distribution Point

Anforderungen:

- Microsoft Azure Subscription
- Azure Management Zertifikat (ASM)
- PKI Zertifikat für Client Connect (HTTPS)
- Client Richtlinie
- DNS CNAME für Cloud Service
- Internetverbindung

Cloud-Based Distribution Point

Einschränkungen:

- Keine Software Update Packages
- Kein PXE
- Kein Multicast
- Keine gestreamten App-V Pakete
- Kein Prestaged Content
- Kein Pull-DP
- Keine Online Task Sequenzen

Internet Connected Clients

nicht mit mir...

Internet-based Client Management

Pro

- Keine Cloud Services
- Keine Cloud Kosten
- Volle Kontrolle

Contra

- Infrastruktur im Internet
- Zusätzliche Infrastruktur
- Zusätzliches Management
- PKI erforderlich

Internet-based Client Management

Nicht Supported:

- Client Deployment
- Auto Site Assignment
- Wake-On-LAN (WOL)
- Betriebssystemverteilung (OSD)
- Remote Steuerung
- User zentrierte Anwendungsverteilung

Cloud Management Gateway

neumodischer Kram...

Cloud Management Gateway (1610)

Azure VM, welche durch die ConfigMgr Konsole erstellt wird

Basiert auf ASM-Portal

Eine Standard_A2 VM unterstützt 2.000 Clients

Aktuell nur Management Point und Software Update Point

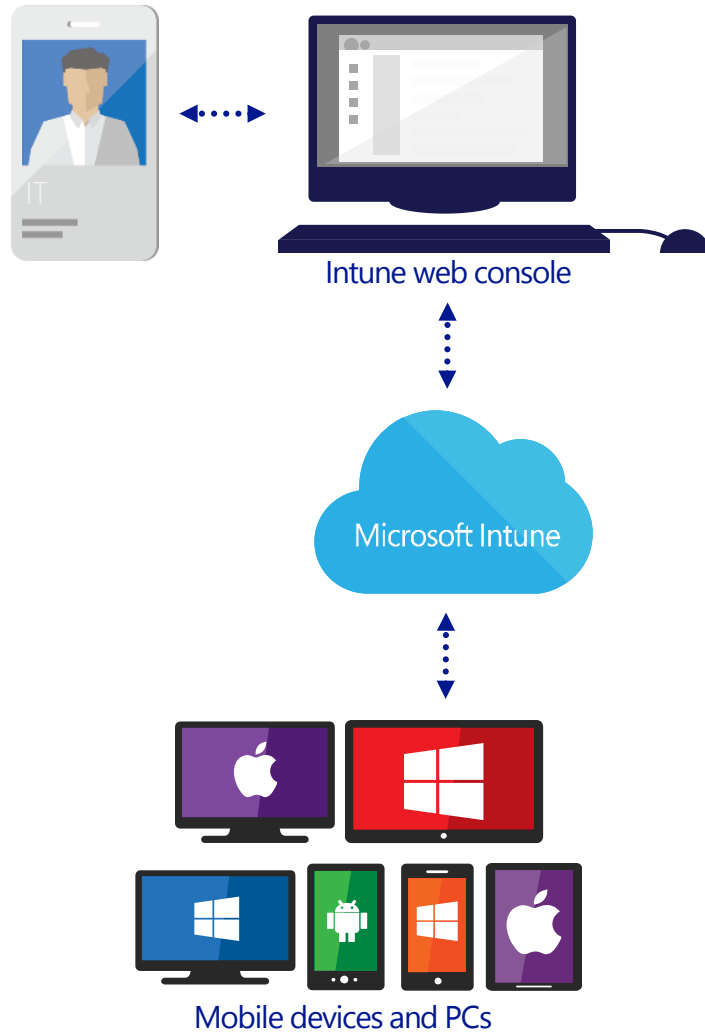
PKI und Management Zertifikat benötigt

Microsoft Intune

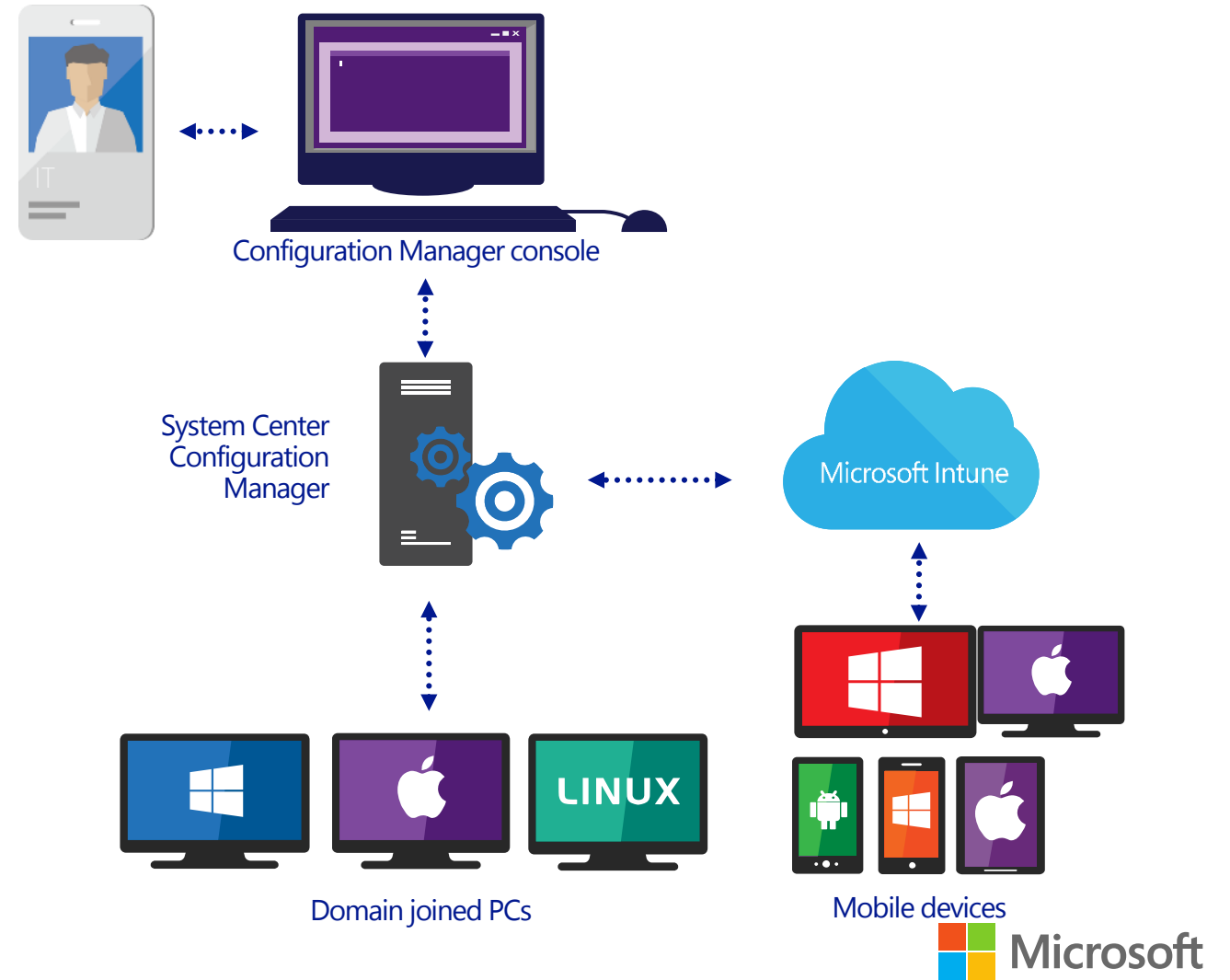
Das gibt's doch auch von Apple...

Microsoft Intune

Intune standalone (cloud only)



Configuration Manager integrated with Intune (hybrid)



Asset Intelligence

Olle Kamelle...

Asset Intelligence

Inventarisierung, Verwaltung und Reporting der Software Lizenzen und Nutzung

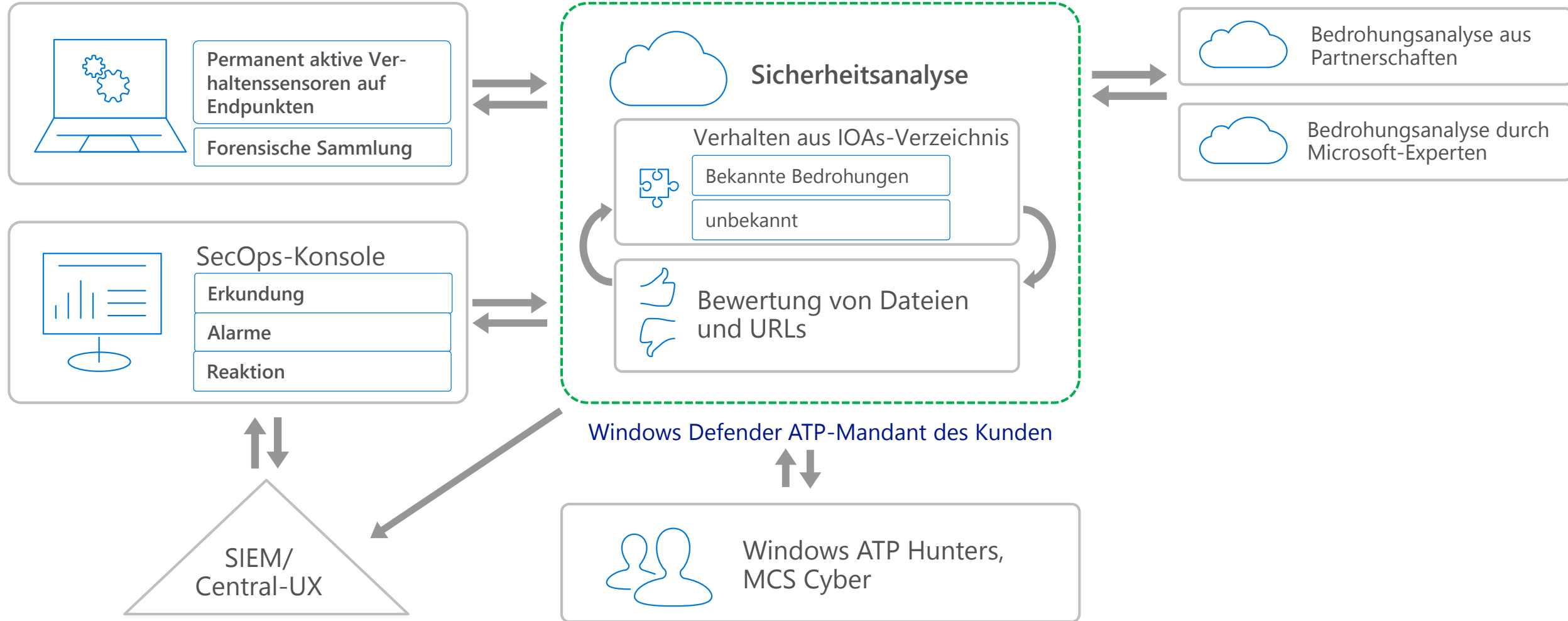
Verbindung zu System Center Online für aktuellste Kataloginformationen

- Software Kategorien
- Software Familien
- Software Labels
- Hardware Anforderungen

Defender ATP

Ach herrje...

Defender Advanced Thread Protection





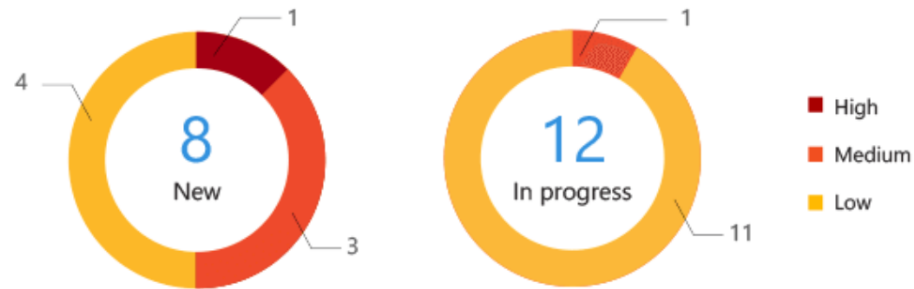
Machine ▾

Search (File, IP, URL, Machine)



ATP alerts

All time ▾



⌚ Latest ATP alerts

[Go to all alerts](#)

Feb 18 18:07:01	NeroBlaze attack detected	High
Feb 18 11:54:02	Outlook dropped and executed a PE file	Medium
Feb 18 14:34:00	A suspicious Powershell commandline was executed	Medium
Feb 18 13:01:09	A reverse shell was detected	Medium

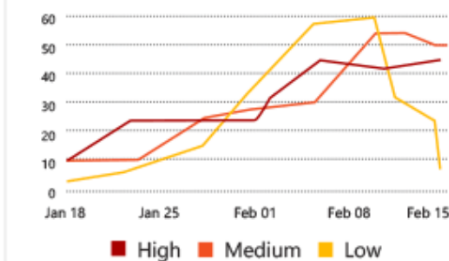
Top machines with ATP alerts

[Go to machine view](#)

5	CONT-LIZBEAN	1	3	1
1	CONT-LILYJARVIS	0	0	1
1	CONT-RODGERANDR	0	0	1
1	CONT-ERICGAYLOR	0	0	1

ATP alert trends

30 days ▾



ATP alerts mapping

30 days ▾



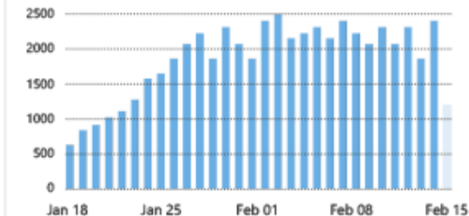
High severity malware

All time ▾

Ransomware	5	1	12
Backdoor	7	0	16
Exploit	35	3	52
Trojan	17	0	25

Machines reporting

30 days ▾



Status

Service status	✓
Total machines reporting	3,547
Open message center	

Operations Management Suite

Suiten, Suiten, Suiten...

Operations Management Suite

Verwendung von ConfigMgr Collections in OMS
Verbindung aus der ConfigMgr Konsole

The screenshot displays the Microsoft Operations Management Suite (OMS) console interface. The top navigation bar shows 'Overview' and 'Settings'. The left sidebar contains a list of navigation items: Solutions, Connected Sources, Data, Computer Groups (highlighted), Accounts, Alerts, Power BI, and Preview Features. The main content area is divided into two columns. The left column lists 'Saved Groups' including Active Directory, WSUS, and SCCM (highlighted). The right column is titled 'System Center Configuration Manager' and contains a checkbox labeled 'Import Configuration Manager collection memberships', which is highlighted with a red rectangle. Below this checkbox, there is a link 'Click here to learn more' and two status messages: 'No computers scanned yet' and 'No collections imported yet'.

Microsoft Operations Management Suite

Overview ▸ Settings

Solutions >

Connected Sources >

Data >

Computer Groups >

Accounts >

Alerts >

Power BI >

Preview Features >

Saved Groups >

Active Directory >

WSUS >

SCCM >

System Center Configuration Manager

☐ Import Configuration Manager collection memberships

Collection memberships can be imported to OMS via Configuration Manager 2016's built-in OMS Connector.

[Click here to learn more](#)

No computers scanned yet

No collections imported yet

Updates & Services

lang lebe der Current Branch...

Updates & Services

InPlace Updates der ConfigMgr Komponenten

Aktivierung neuer Features

Internetverbindung benötigt

Service Connection Tool für Offline Infrastruktur

Update Registration Tool für Non-Cloud Updates (.update.exe)

Hotfix Installer (*.exe)

PowerBI

Das war doch das mit den Bildchen...

PowerBI

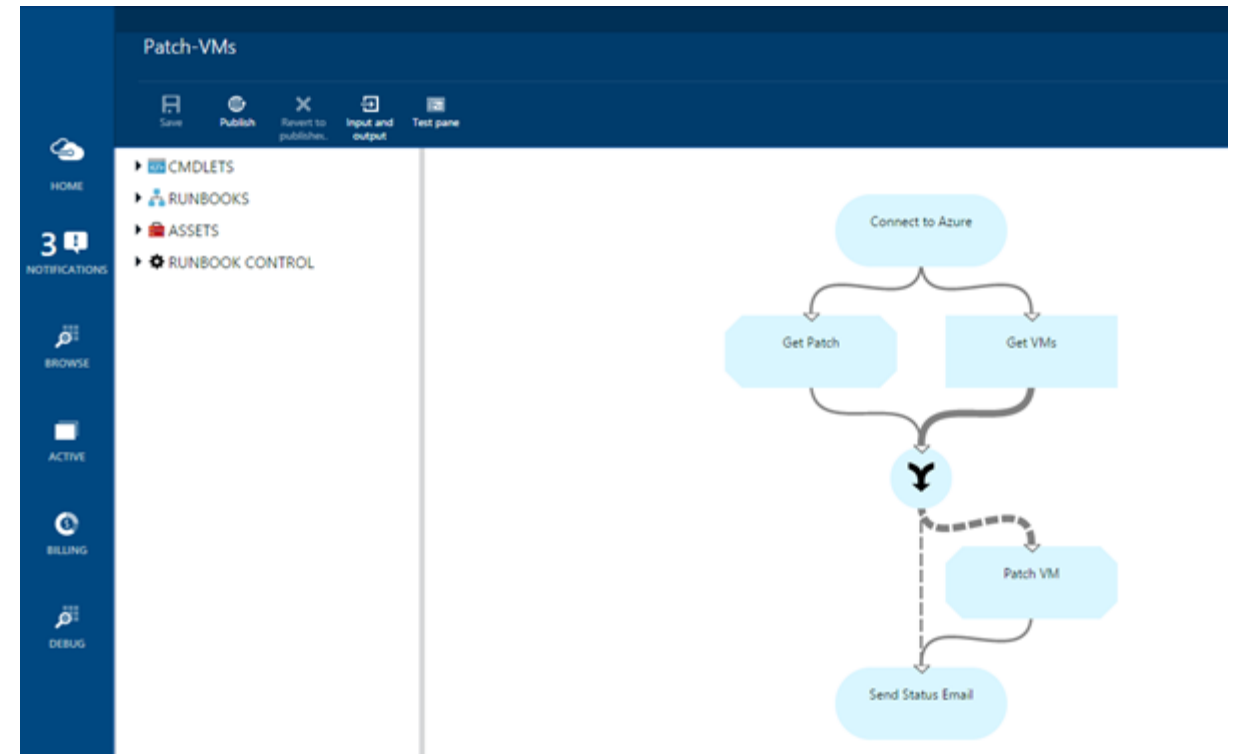


Azure Automation

Was will er denn jetzt...

Azure Automation

Azure Automation Account
Hybrid Runbook Worker
Automation in der Cloud
Automation On-Premises
Grafisch oder CLI
Cmdlet-Support



Store for Business

Jetzt dreht er endgültig durch...

Windows Store for Business

Integration des Store for Business in ConfigMgr

- Verwaltung der Volumenlizenz-Apps
- Synchronisierung gekaufter Apps
- Synchronisierte Apps erscheinen in ConfigMgr Konsole
- Einfache Erstellung von Applikationen
- Standard Bereitstellung für Apps
- Lizenzinformationen in der ConfigMgr Konsole

Health Attestation

Aahhhhja, klingt interessant...

Health Attestation

Anzeige des Health Attestation Status in ConfigMgr

- ELAM
- BitLocker
- Secure Boot
- Code Integrity

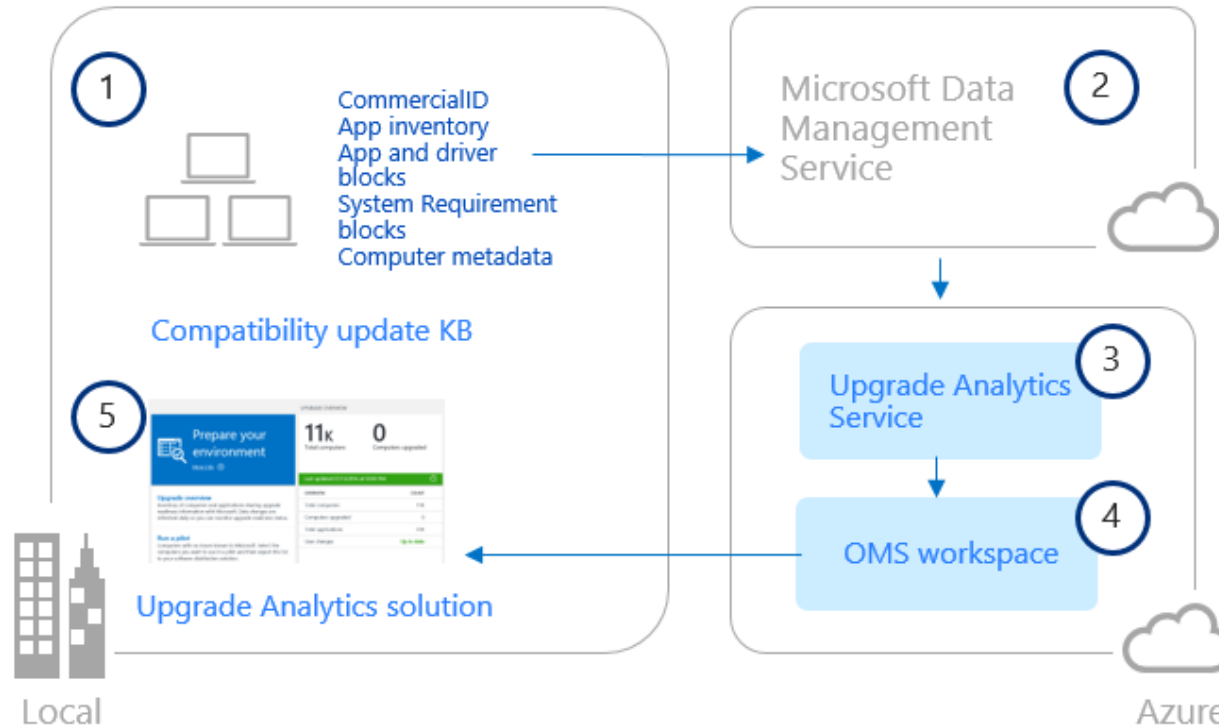
Upgrade Analytics

Her damit, was auch immer das ist...

Windows Upgrade Analytics

Nicht wirklich mit ConfigMgr verheiratet

Deployment von KBs und Scripts mit ConfigMgr



Conditional Access

Ich kenn nur Konditionalstrafen...

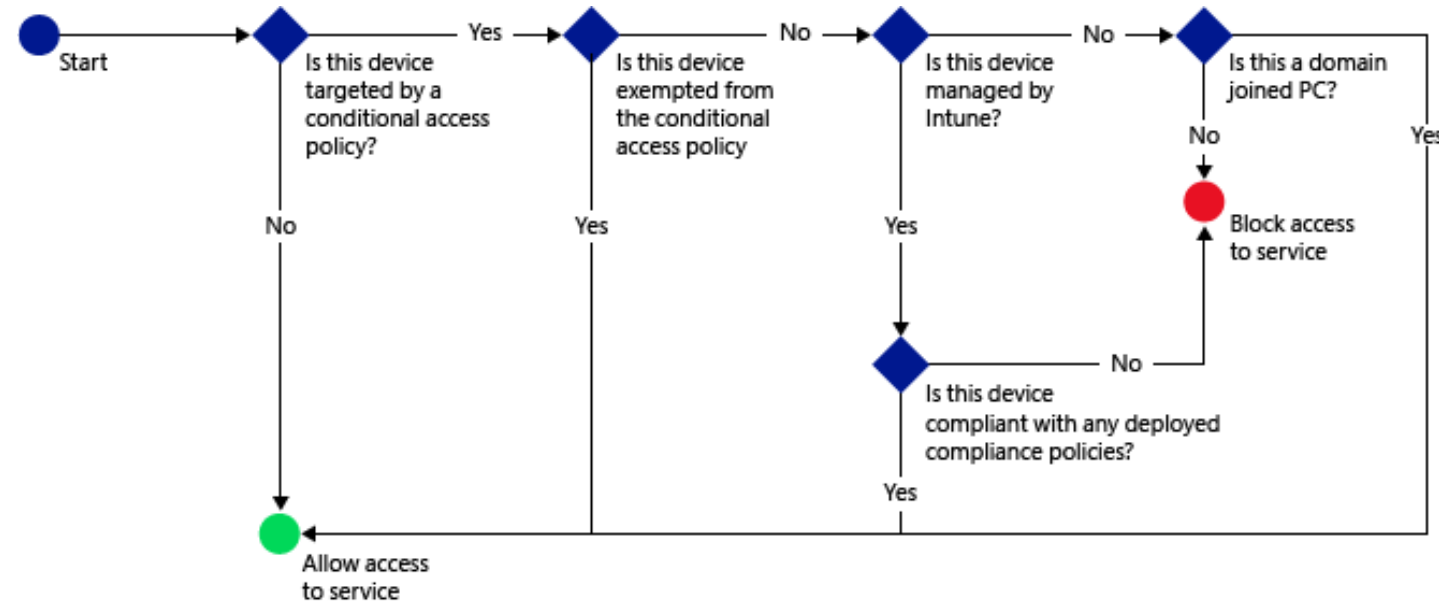
Conditional Access

Zugangssteuerung für:

- Microsoft Exchange On-premises
- Microsoft Exchange Online
- Exchange Online Dedicated
- SharePoint Online
- Skype for Business Online
- Dynamics CRM Online

Konfiguration von:

- Compliance Policy
- Conditional Access Policy



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Infos und Links

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Vielen Dank

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