A stylized graphic on the left side of the slide shows a blue silhouette of a person climbing a rope. The rope is represented by several thick, vertical lines in shades of blue, green, and purple. The person is positioned on the left, with their arms and legs extended as if gripping the rope. The background is a light blue gradient.

Move to a modern
managed workplace at
your own pace!

Arjan Vroege

Peter van der Woude



Peter van der Woude

Consultant at KPN ICT Consulting
Microsoft MVP for Enterprise
Mobility (and Windows Insider)
Happy husband and proud father





Arjan Vroege

Consultant at KPN ICT Consulting
Microsoft MVP for Enterprise
Mobility



Agenda

- Settings the stage
- Architecture and infrastructure
- OS deployment
- Workloads
- Software updates
- Recap



Setting the stage






Starting point

- **Co-management** – Co-management is about managing Windows 10 devices by using both Configuration Manager and Microsoft Intune
- **Co-existence** – Co-existence is about managing Windows 10 devices by using both Configuration Manager and a third-party MDM
- **Cloud attached** – Cloud attached is about attaching cloud components to the management of Windows 10 devices (think about co-management, Internet clients, Windows-as-a-Service, Windows Analytics)



Management powered by the M365 Cloud

	 On-premises	 Cloud attached	 Cloud only
Traditional OS Deployment	✓	✓	
Win32 app management	✓	✓	✓
Configuration and GPO	✓	✓	✓
Bitlocker Management	✓	✓	✓
Hardware and software inventory	✓	✓	✓
Update management	✓	✓	✓
Unified Endpoint Management – Windows, iOS, macOS, Android		✓	✓
Modern access control – Compliance, Conditional Access		✓	✓
Modern provisioning – Autopilot, DEP, Zero Touch, KME		✓	✓
Modern security – Hello, Attestation, ATP, Secure Score		✓	✓
Modern policy – Security Baselines, Guided Deployments		✓	✓
Modern app management – O365 Pro Plus, Stores, SaaS, VPP		✓	✓
Full M365 integration – Analytics, Graph, Console, RBAC, Audit		✓	✓

Main use cases for co-management

- Flexibility for app deployment and re-evaluation;
- Control over the deployment of quality and feature updates;
- Configuration options via baselines;
- Management capabilities;
- Best of both worlds;



Movement 1: From domain joined to Azure AD joined devices

AD
Domain
Joined

- Extend your on-premises directory with Azure AD.
- Hybrid Azure AD join your AD domain-joined devices
- AD + Azure AD join new devices through Autopilot

Hybrid
Azure AD
Joined

- Transition GPO to MDM
- Pilot Azure AD join to identify AD auth dependencies
- Gradually move traditional management tools that rely on computer identity to their cloud equivalents or AAD enlightened versions (e.g. ConfigMgr with Intune, WSUS to WUfB)
- AAD join new devices (AD joined machines remain AD joined until retired)

Azure AD
Joined



Movement 2: From Configuration Manager to Intune

Configurati
Manger

- Extend your on-premises infrastructure with CMG.
- Intune enroll existing devices
- Intune enroll and install the ConfigMgr client for new devices through Autopilot

Co-
manageme

the best
ment capabi
worlds
gets more flexib
to the introduct
ud
can control access
Azure AD device-based
conditional access.

- Transition workloads from Configuration Manager to Microsoft Intune
- Pilot workload transitions to identify management gaps

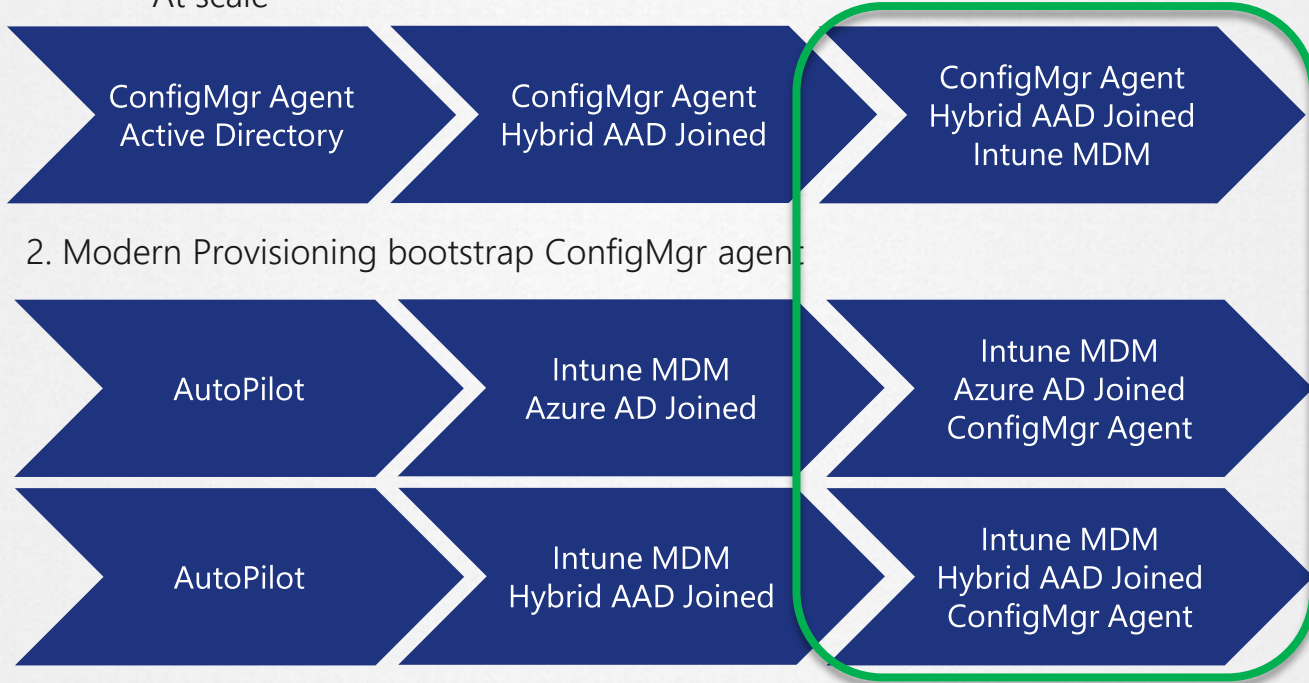
Microsoft
Intune

ite dependency on
em infrastructure
minate maintenance on
e infrastructure



Main paths to co-management (existing ConfigMgr)

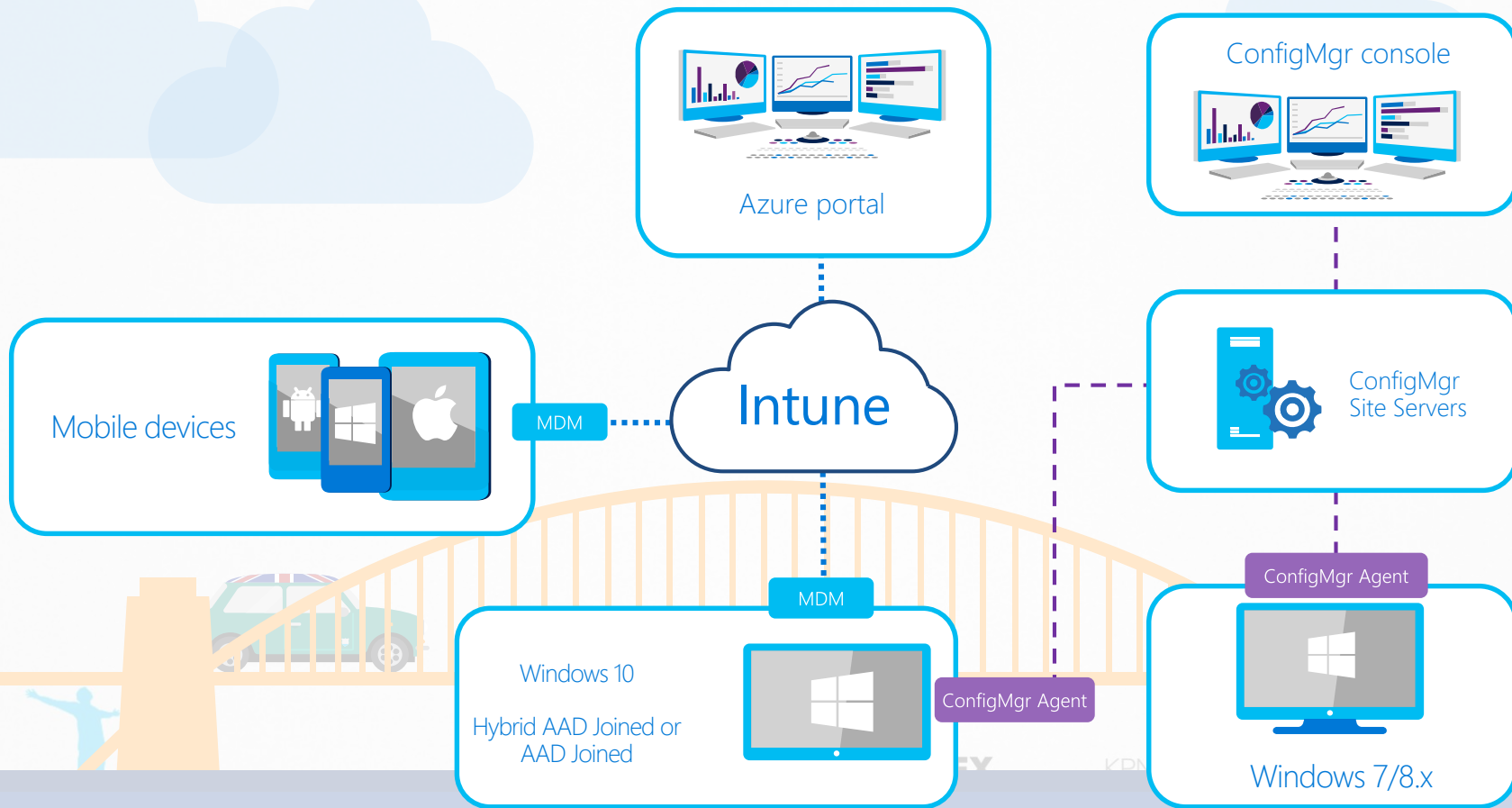
- Existing ConfigMgr managed devices auto-enroll into Intune
 - Transparent
 - At scale



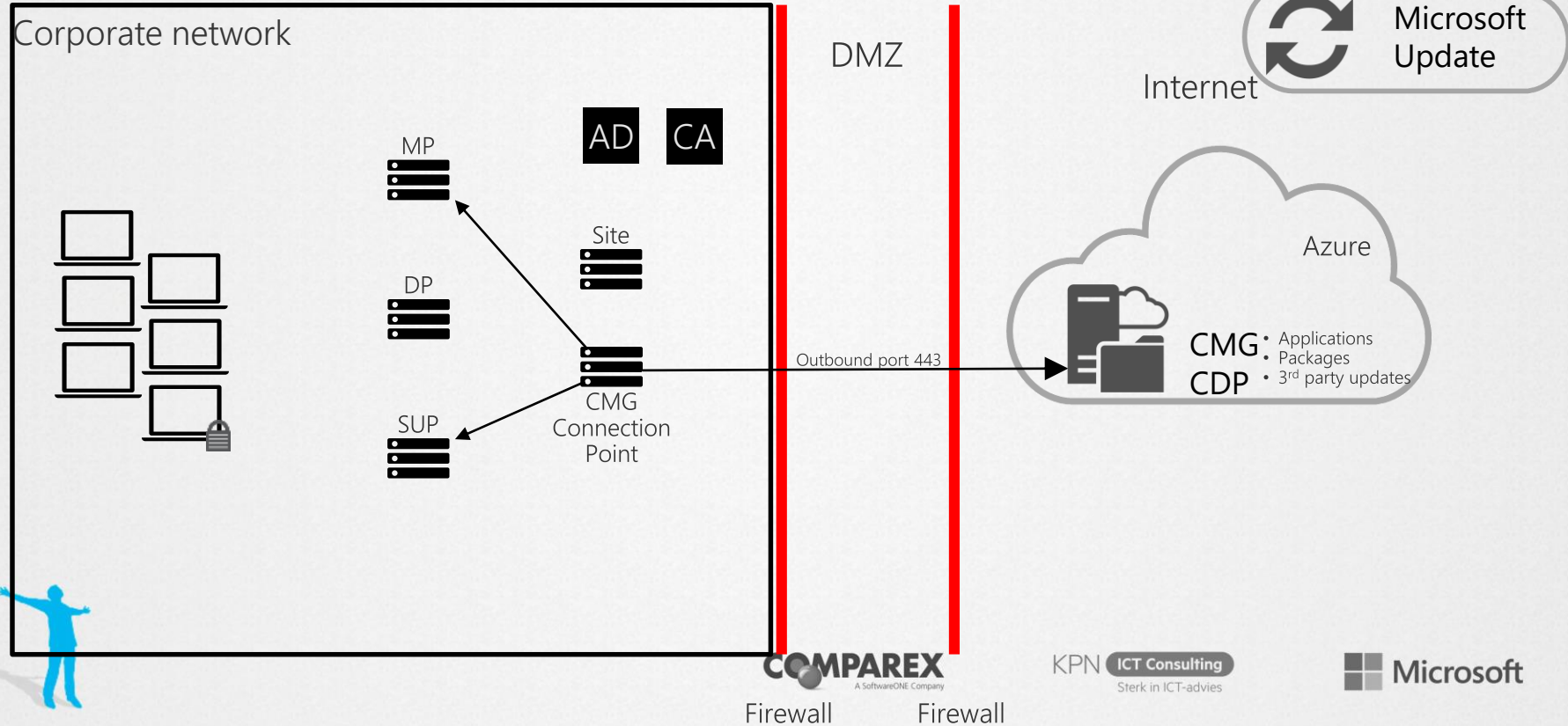
Architecture and infrastructure



Co-Management architecture with ConfigMgr and Intune



Cloud management gateway infra



A photograph of Donald Trump speaking at a podium. He is wearing a dark suit, a white shirt, and a red tie. He has his right hand raised in a gesture. The background is blue with logos for FOX BUSINESS and WSJ. The text "What about costs?" is overlaid in large white letters with a black outline.

What about costs?

HOLD IT! WAIT A MINUTE!

SEPTEMBER 16, 2016

NETWORK

FOX BUSINESS

REPUBLICAN

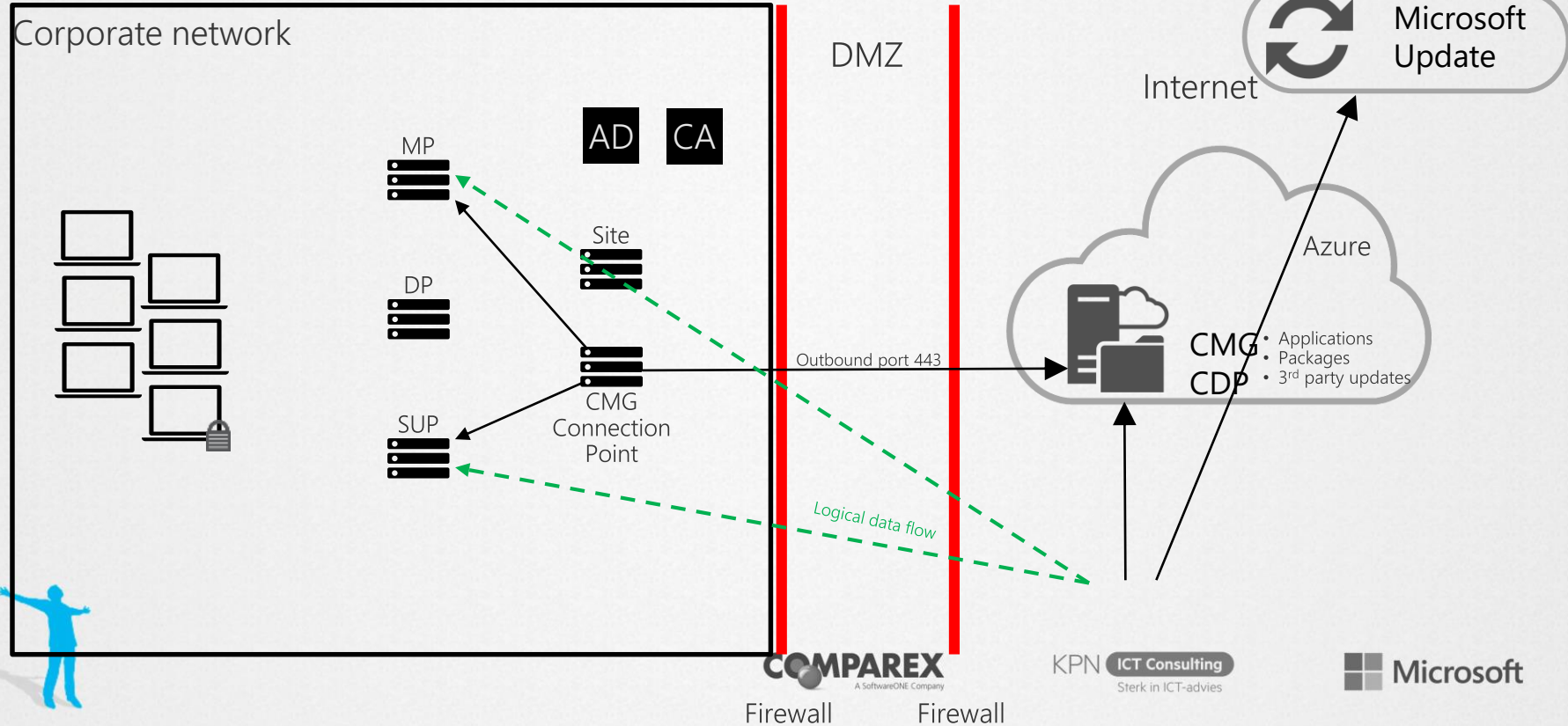
★ DEBATE ★

THE WALL STREET JOURNAL

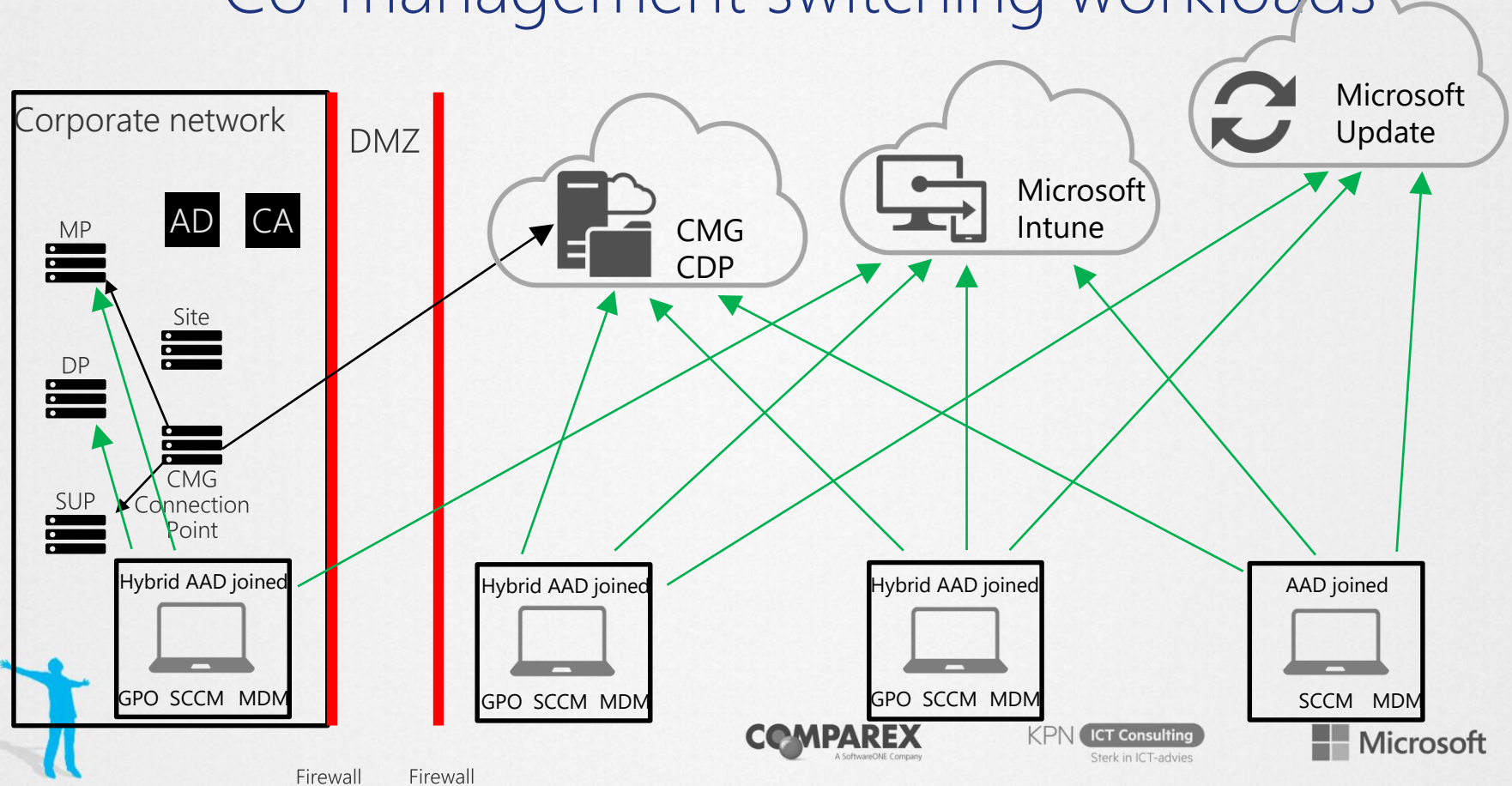
Demo: Cost calculator



Cloud management gateway infra



Co-management switching workloads



Management insights

Insights on Cloud Attach Readiness

- Provide guided assessment on the readiness to attach to the cloud
- Direct action based on the assessment





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Demo: Management Insights





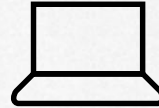
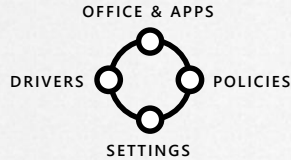
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OS Deployment



Windows deployment

Traditional

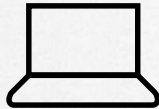


Build a custom image, gathering everything else that's necessary to deploy

Deploy image to a new computer, overwriting what was originally on it

Time means money, making this an expensive proposition

Modern



Un-box and turn on off-the-shelf Windows PC

Transform with minimal user interaction

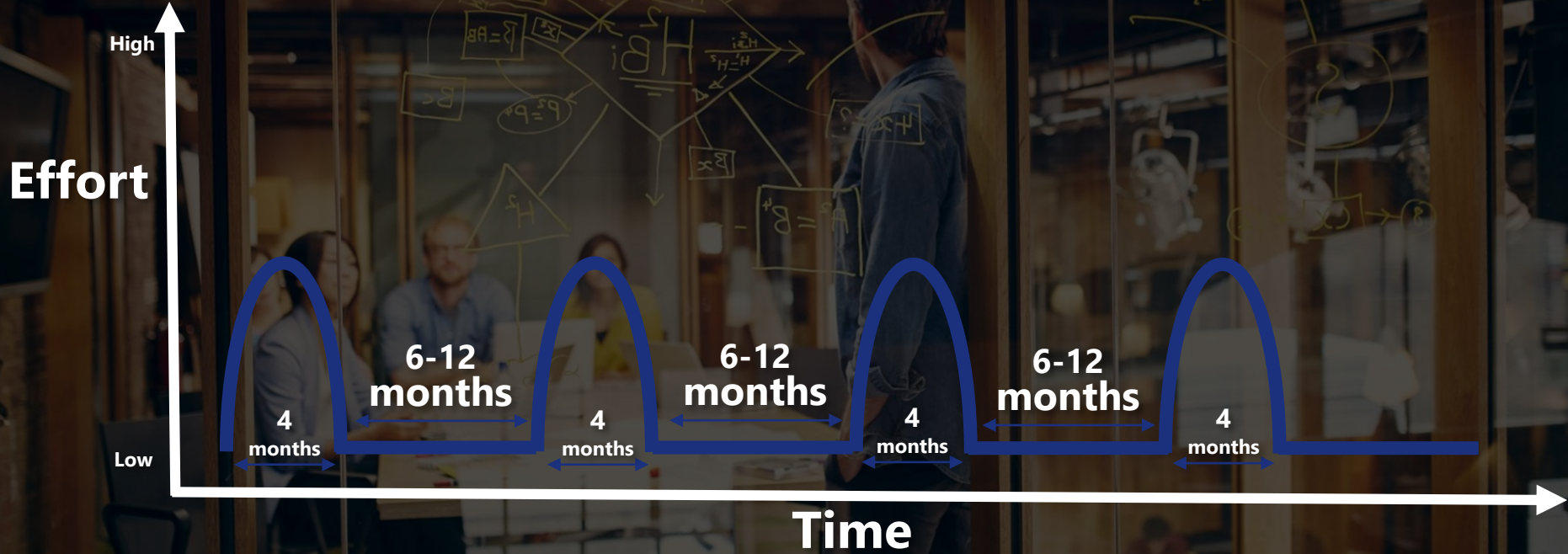
Device is ready for productive use



Current Adoption Rate

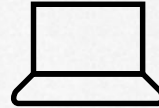
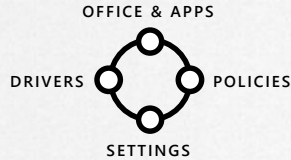


Desired Adoption Rate



Windows deployment

Traditional



Build a custom image, gathering everything else that's necessary to deploy

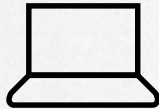
Deploy image to a new computer, overwriting what was originally on it

Time means money, making this an expensive proposition

Hybrid

OR

Modern



Un-box and turn on off-the-shelf Windows PC

Transform with minimal user interaction

Device is ready for productive use



Hybrid AzureAD Join

What and Why?

What:

- Devices joined to your local Active Directory and registered in AzureAD;
- With AAD Connect and Windows 10 1607 or later you're already using it
- Referred as DJ++

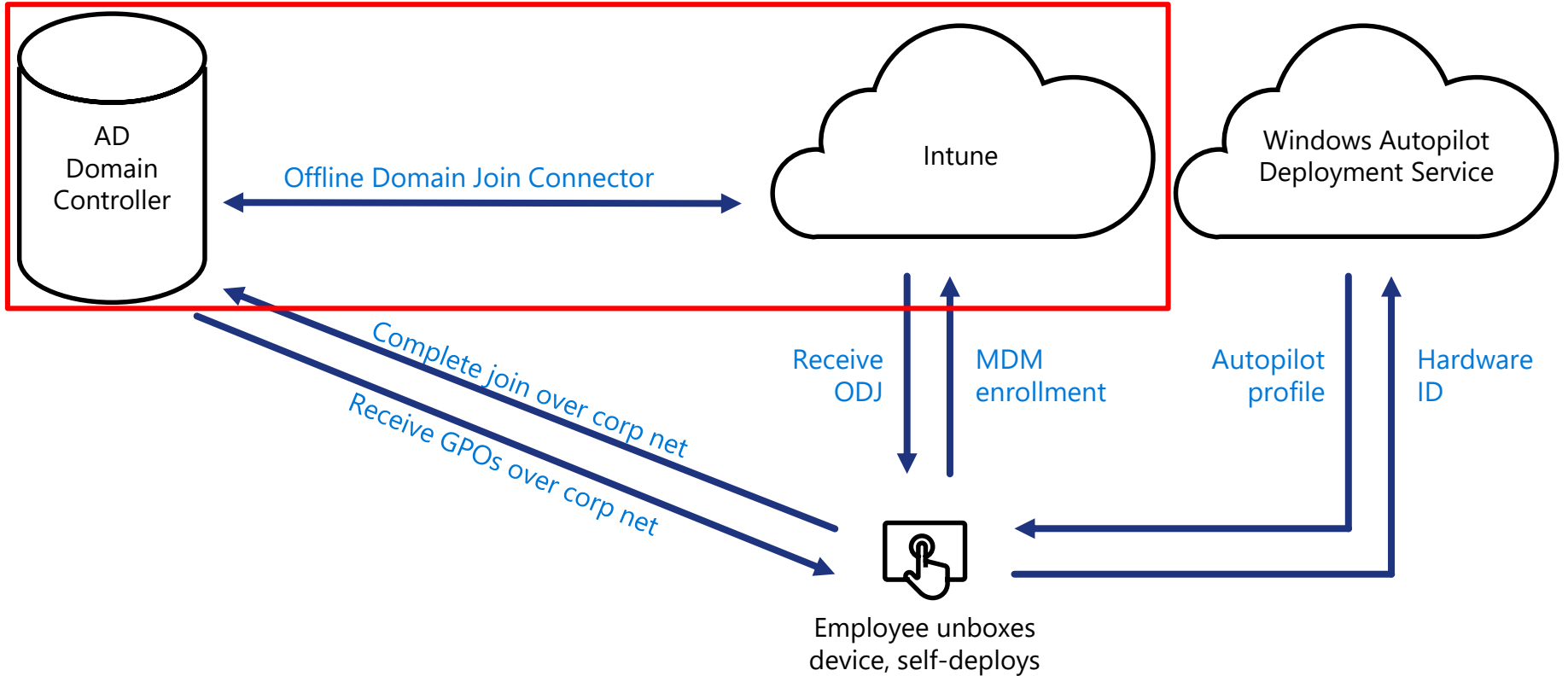
Why:

- To benefit from the capabilities provided by Azure Active Directory;
- To migrate your workloads one-by-one;



Hybrid AzureAD Join

How?



Hybrid AzureAD Join

And what now?

- Create a Autopilot Profile and choose Hybrid Azure AD Join;
- Deploy the ConfigMgr client to the enrolled computer;
- Deploy:
 - Tasks sequence through CMG from ConfigMgr;
 - Applications and Settings from Intune;



Windows Autopilot Scenario's

User-Driven:

- Hybrid Joined or AzureAD only supported;
- Designed to transform the initial state to a ready device for the user;
- User needs to provide his credentials;

Self-Deploying:

- Hybrid Joined not supported only AzurAD Joined;
- Designed for Kiosk, digital signage device, or a shared device;
- No credentials needed, automatically joined to AAD;



OS Deployment through CMG

Possibilities:

- Windows 10 in in-place upgrades
- Task sequences which are not using boot images

Requirements:

- Configuration Manager 1802 or later;
- TS deployed with option **'Download all content locally before starting task sequence'**





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Demo: OS Deployment





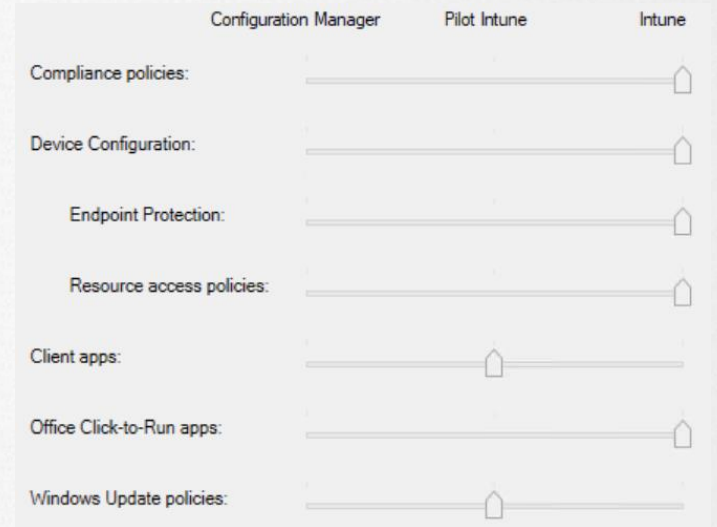
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Workloads



Overview of workloads

- Compliance policies
- Device configuration
- Client apps
- Office Click-to-Run apps
- Windows update policies



Compliance Policy

- Authority for checking Device Compliance
- Device Compliance state can be used in Conditional Access policies;
- Device Compliance state can be used to report or monitor the device states;
- Both ConfigMgr and Intune will update the compliance state of the device in AzureAD



Compliance Policy

Compare ConfigMgr and Intune

ConfigMgr:

- Device Health Attestation
 - Bitlocker, Secure Boot, Code Integrity, Early Launch Antimalware
- Require Windows Update for Business compliance;
- Require registration within AzureAD;
- Require All required updates;
- Require All required applications;

Intune:

- Device Health Attestation
 - Bitlocker, Secure Boot, Code Integrity
- Device Properties like OS versions and OS build ranges;
- Require device compliance from ConfigMgr;
- System Security like Password, Encryption, Firewall, Antivirus and Antispyware;
- Windows Defender (ATP)



Compliance Policy

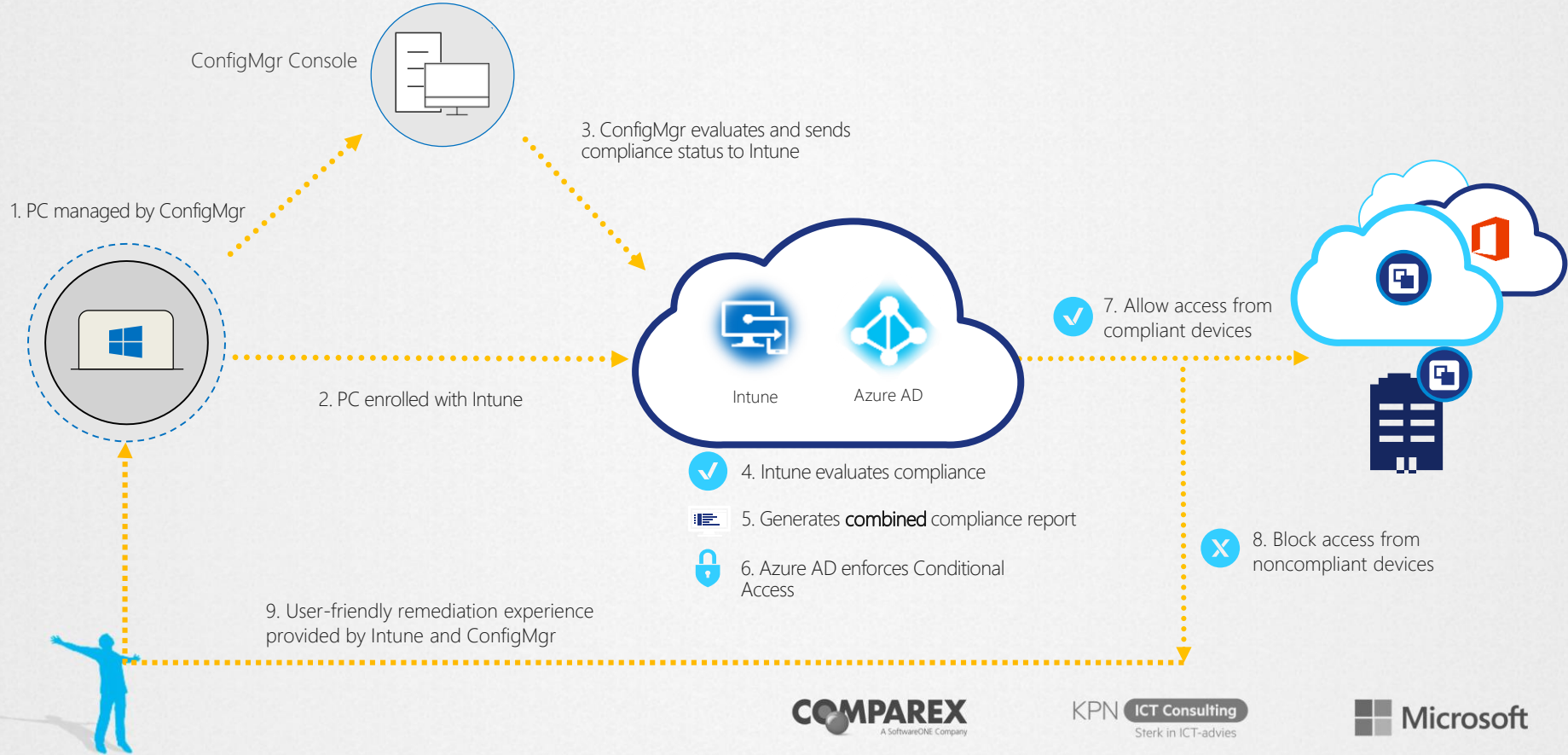
Moving from ConfigMgr to Intune

- Create (migrate) your Device Compliance policies to Microsoft Intune;
- Define Pilot machines to test the new Compliance Policies;
- Run a pilot on those devices;
- Flip-the-switch for Device Compliance in ConfigMgr



Hybrid Device Compliance

ConfigMgr compliance policies as part of Intune assessment



Hybrid Device Compliance

ConfigMgr compliance policies as part of Intune assessment

Windows 10 compliance policy ×

Windows 10 and later

Select a category to configure settings.

Device Health ⓘ
3 settings available >

Device Properties ⓘ
5 settings available >

Configuration Manager Compliance □ ×

Windows 10 and later

Configuration Manager Compliance State. ⓘ

Require
Not configured

Add Rule ×

Condition:

All required applications installed with a deadline older than X days

Require registration in Azure Active Directory

All required updates installed with a deadline older than X days

All required applications installed with a deadline older than X days

Require BitLocker drive encryption

Require Antimalware

Reported as healthy by Health Attestation Service

Require Windows Update for Business compliance

OK
Cancel

Software Center

SCCM PG Dogfood

- Applications
- Updates
- Operating Systems
- Installation status
- Device compliance
- Options
- msw

SAMOSS-DEV

Compliance status: Non Compliant

Last checked: 9/17/2018 3:14:49 PM

! This device does not comply with corporate security policies. Access to corporate resources has been blocked until the issues are resolved.

You must fix the following issues. When you are done, click Check compliance.

Sync your device

You need to sync your device to maintain access to company resources.

[Learn More](#)

We are resolving the following compliance issues for you.

Required updates are not installed

Configuration Manager needs to install updates. If you get this message again, contact your IT administrator.

Check compliance



Device Configuration

- Device Configuration
- Resource Access policies
 - VPN
 - Wi-Fi
 - Email
 - Certificate
- Endpoint Protection policies



Device Configuration

Moving from ConfigMgr to Intune

- Create your Resource Access policies in Microsoft Intune;
- Define Pilot machines to test the new Device Configuration policies;
- Run a pilot on those devices;
- Flip-the-switch for Device Configuration in ConfigMgr



Device Configuration

What about my Group Policies?

- Group policies can still be used in a co-managed scenario;
- Re-think your Group Policy (setting) strategy;
- Do not focus on a 1-on-1 to MDM strategy;
- Evaluating existing Group Policies with MDM

Migration Analysis Tool (MMAT)



Office Click-to-Run apps

- What
 - Starting in Configuration Manager 1806, this workload manages Office 365 apps on co-managed devices
 - After moving the workload, the app shows up in the Company Portal on the device
 - Office updates may take around 24 hours to show up on client unless the devices are restarted
 - There's a new global condition, Are Office 365 applications managed by Intune on the device. This condition is added by default as a requirement to new Office 365 applications. When you transition this workload, co-managed clients don't meet the requirement on the application. Then they don't install Office 365 deployed via Configuration Manager.



Office Click-to-Run apps

- Why
 - Office CTR deployment requirements
 - Control for targeting Office CTR deployments
 - Manageability for Office CTR



Office Click-to-Run apps

- Switch
 - Create the Office CTR apps in Microsoft Intune;
 - Define Pilot machines to test the new Office CTR deployment;
 - Run a pilot on those devices;
 - Verify the existence and usage of the new global condition;
 - Flip-the-switch for Office Click-to-Run apps in ConfigMgr



Client apps

- What
 - Starting in Configuration Manager version 1806, it's possible to use Intune to manage client apps on co-managed Windows 10 devices.
 - Transition this workload, will make that any available apps that are deployed from Intune available in the Company Portal. Apps that are deployed from Configuration Manager are available in Software Center.
 - Pre-release feature



Client apps

- Why
 - Application deployment requirements (think about re-evaluation, supersedence)
 - Control for targeting deployments
 - Troubleshooting
 - (Closing the gap)



Client apps

- Switch
 - Create the client apps in Microsoft Intune;
 - Define Pilot machines to test the new client app deployment;
 - Run a pilot on those devices;
 - Verify if the client app deployment needs can be met by using Intune
 - Flip-the-switch for Office Click-to-Run apps in ConfigMgr



Windows Update Policies

- What
 - Switching to Windows Update for Business
 - Monitoring from ConfigMgr to Intune of Windows Analytics
 - Define Update Policies for your devices;
 - Moving from on-premise fine grained control to only defining channels (less control);



Windows Update Policies

- Why
 - Reduce time of controlling deployment of update;
 - Rely on Windows Update cloud functionality for delivering updates;
 - Be ready for Windows-as-Service



Windows Update Policies

- Switch
 - Define your Windows Update for Business policies within Intune
 - Define Pilot machines to test the new policies;
 - Run a pilot on those devices;
 - Verify if the policy is applied and active;
 - Flip-the-switch for Windows Update Policies in ConfigMgr





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Demo: Switching Workloads



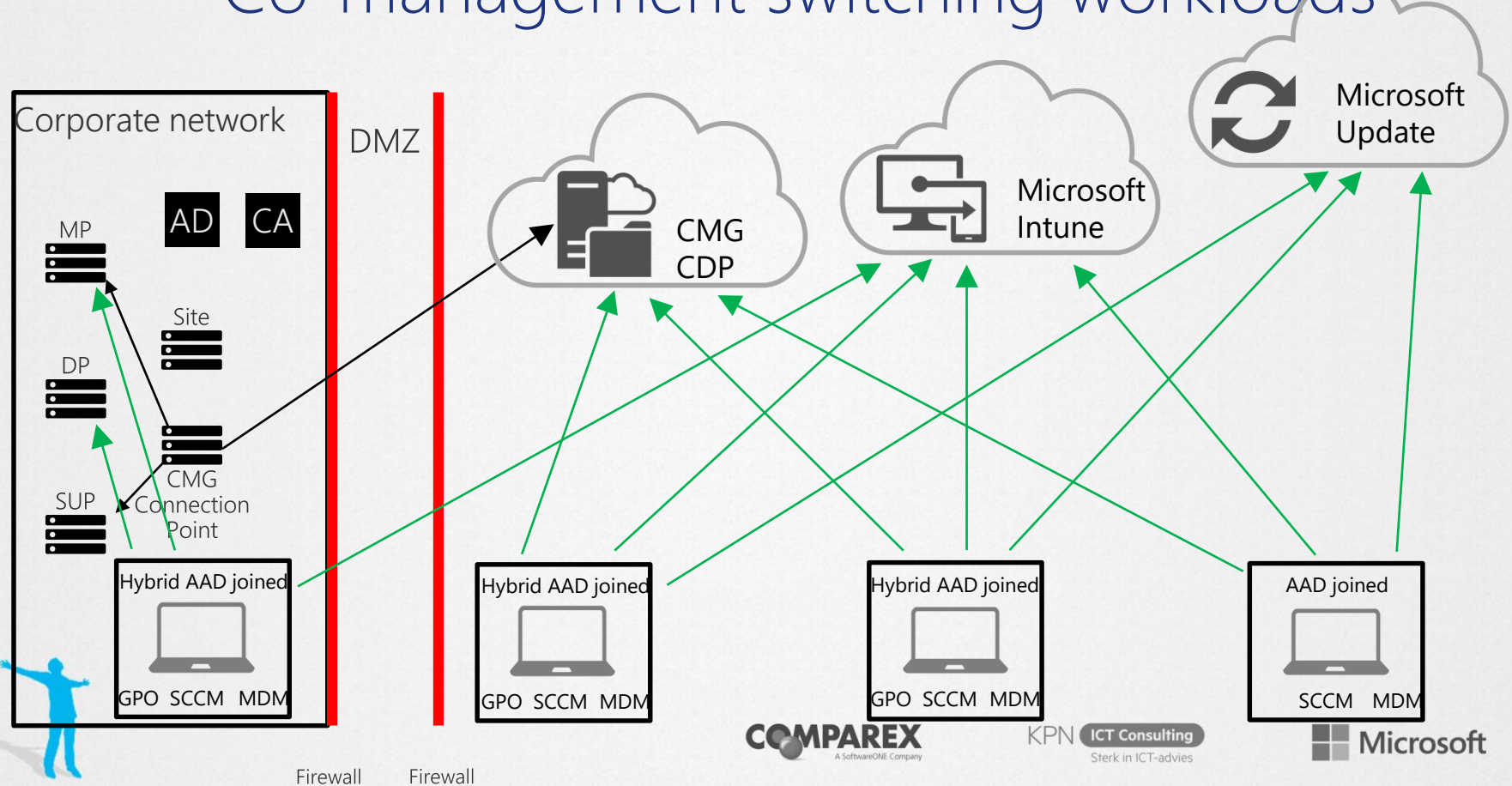


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Wrap up



Co-management switching workloads



Cool tip: CMPivot

- Co-managed devices can be queried by using CMPivot. Even when those devices are only available on the Internet.



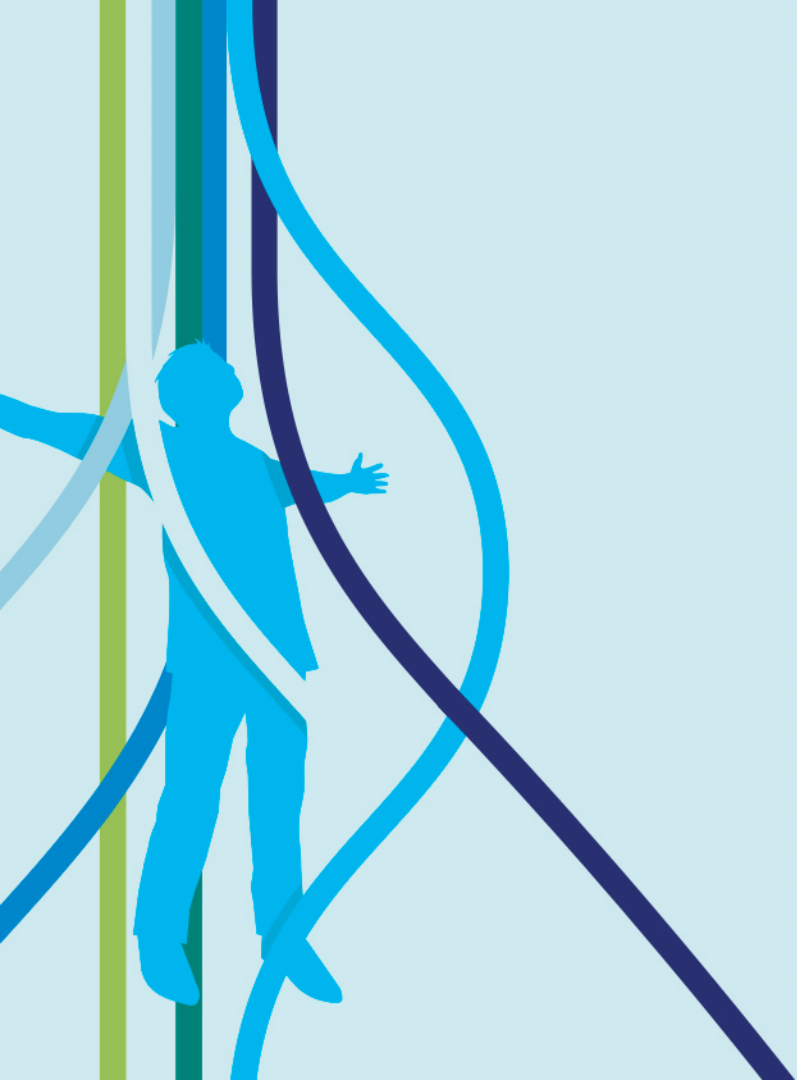
So why are you here?

You have invested a lot in ConfigMgr. It works great.
Now you want incremental cloud-value.



Good news!

ConfigMgr will be available as long as you need it.
ConfigMgr has easy access to M365 cloud-value.



Move to a modern managed workplace at your own pace!

Many organizations want to make the switch to a modern managed workplace, but are currently unable to make the complete switch. Often this is related to missing specific management features, like limited control over updates and missing rich app deployment features. The good news is that it's not required to directly make the complete switch. This can be achieved in steps, by using Configuration Manager and Microsoft Intune. In this session we will present and show you how to use these tools in combination with Windows 10 to make a smooth transition.



Move to a modern managed workplace at your own pace!

Introduction to moving to a modern managed workplace (Peter)

- Setting the scope of the session by defining a modern managed workplace
- defining the different use cases for managing devices via either ConfigMgr, Microsoft Intune, or both

Co-management (Peter)

- Minimal requirements, enablement and workloads
- Infrastructure requirements, CMG
- **Cost calculator including DEMO**
- Pushing the ConfigMgr client via Microsoft Intune
- Show the client behavior in the logs

OS deployment (Arjan)

- Movement towards Windows Autopilot
- Differentiating between Azure AD join and hybrid Azure AD join
- In-place upgrade scenario

Compliance policies > Device compliance (Arjan)

- Switch compliance policies from ConfigMgr to Microsoft Intune
- After switching, Microsoft Intune can still get data via the ConfigMgr client and MDM (separate compliance check in Intune)
 - Useful when checking for specific updates and specific apps
- Show the client behavior in the logs

Configuration baselines > Device configuration (Arjan)

- Switch configuration baselines from ConfigMgr to Microsoft
- After switching, ConfigMgr can still enforce specific settings (separate baseline check in ConfigMgr)
- Useful for enforcing specific settings
- Show the client behavior in the logs

Apps (Peter)

- Switch Office Click-to-Run apps from ConfigMgr to Microsoft Intune (check the global condition)
- Switch Client apps from ConfigMgr to Microsoft Intune to get apps available in Software Center and Company Portal (preview)

Software updates (Arjan/Peter)

- Switch updates from ConfigMgr to Windows Update for Business
- Verify the impact of dual scan
- Reporting can be a good use case for Windows Analytics
- Show the client behavior in the logs

Summarization of moving to a modern managed workplace (Peter)

- Concluding the scope of the session by plotting the different management capabilities on the different use cases





Explain workload

Explain usage of workload

Explain move workload to cloud





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Windows Update policies

- What
- Why
- Switch

