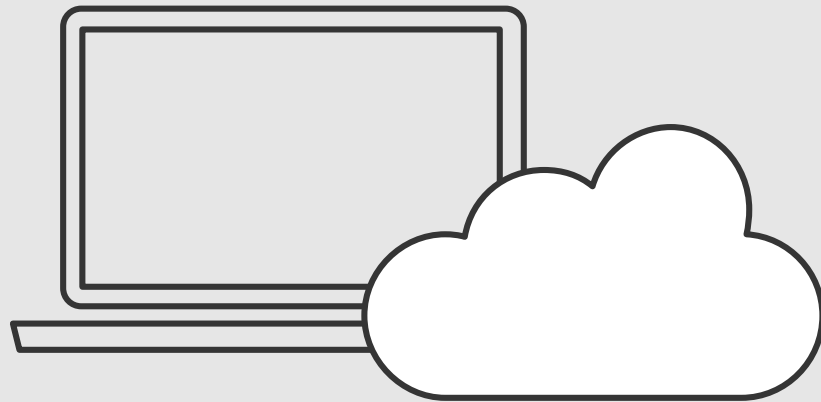


Windows 10 Autopilot and EMS a Modern Approach

Stefan Schörling
Lumagate part of Innofactor

Today's focus

Microsoft 365 powered devices



What is Microsoft 365?

"A complete, intelligent, secure solution to empower employees"

• Office 365



Unlocks
creativity

Windows 10



Built for
teamwork



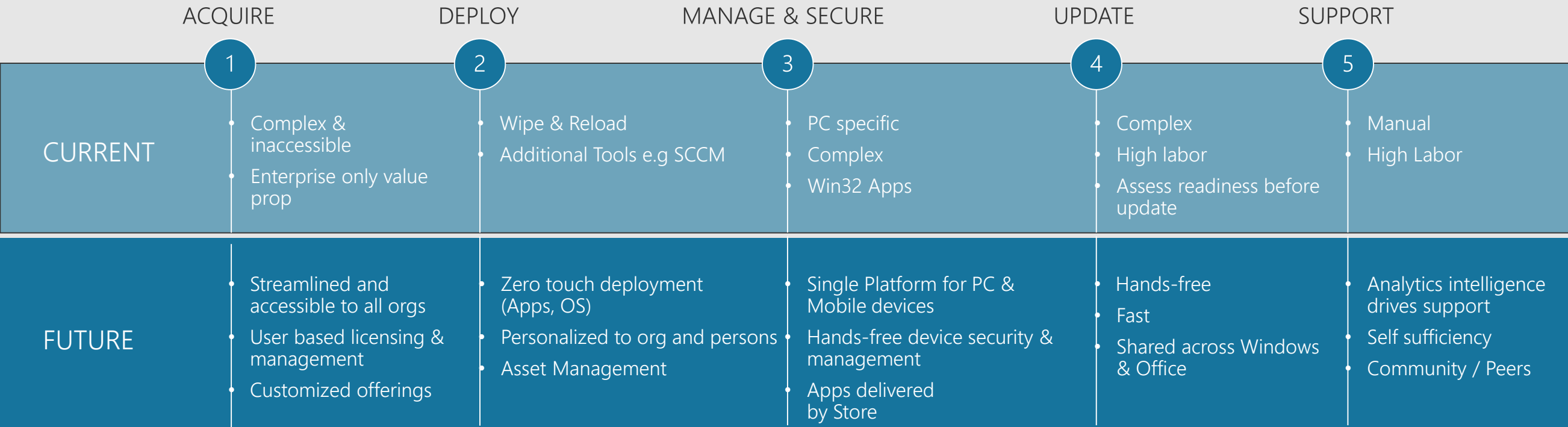
Integrated
for simplicity

Enterprise Mobility +
Security

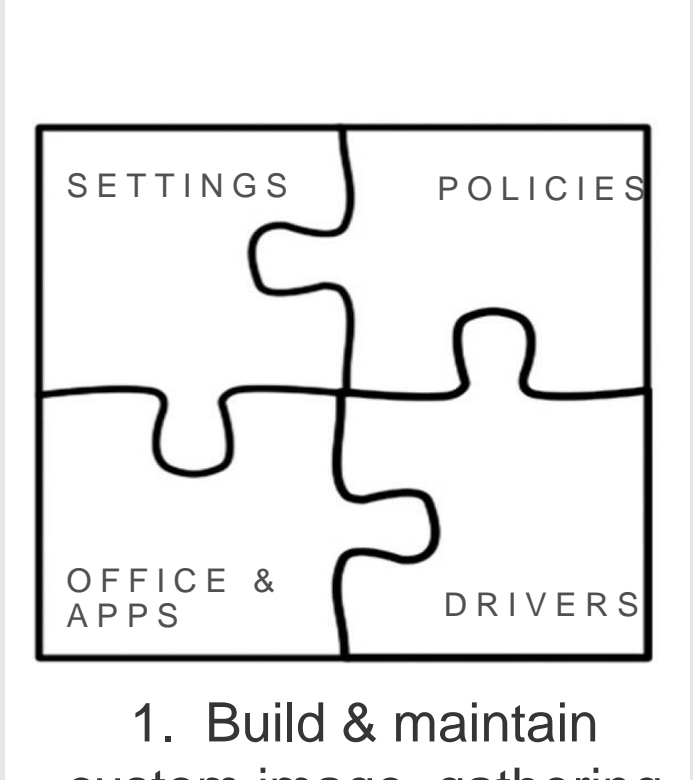


Intelligent
security

Device lifecycle



Traditional deployment



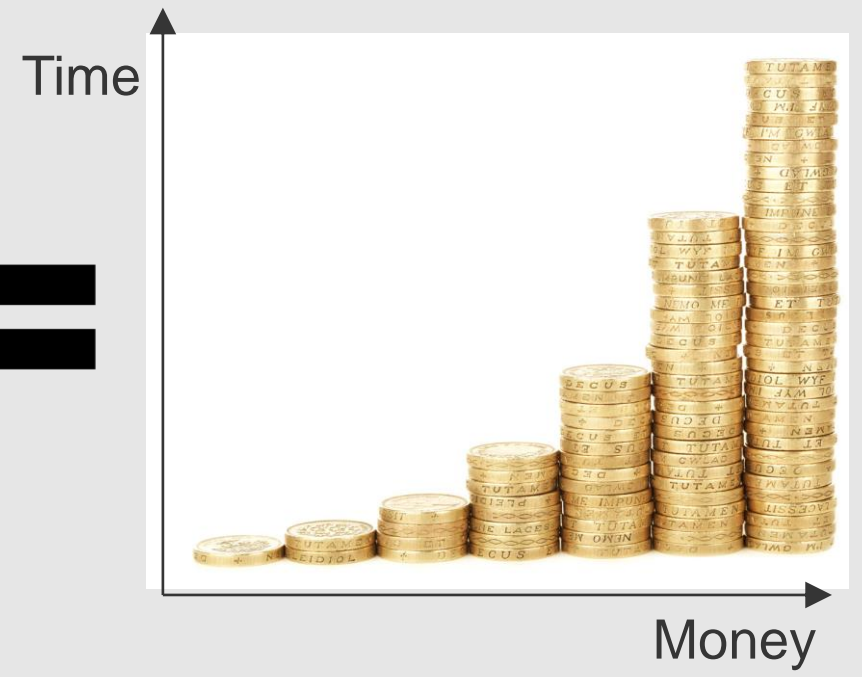
1. Build & maintain custom image, gathering everything else that's necessary to deploy

+



2. Wipe original OEM Windows image and replace with custom image





=



Modern management infographic

Simplified management & security

Embrace cloud-based management and transition at your pace while staying in control.

-  Agentless
-  Unified identity, device and O365 ProPlus mgmt.
-  Office 365 ProPlus MGMT
-  Integrated data protection

Always up to date

Deliver the latest features and security.

Cloud updates mean you don't need to have on-premise update servers.

Control what updates are deployed, to whom and when.



Self-service deployment

Make any new PC enterprise-ready via a simple self-service experience.



Proactive insights

Get ongoing proactive insights to diagnose and fix issues before they happen.



Microsoft 365



Automatically configure devices when your users login with their company credentials.

Use cloud intelligence to upgrade Windows 10 and Office 365 ProPlus with confidence.

Sign in with contoso.microsoft.com

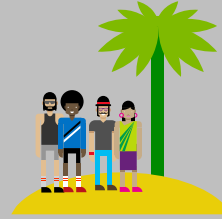


email@contoso.com

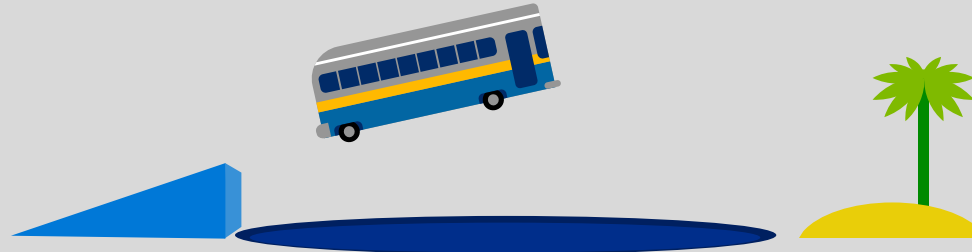
Next

Paths to Modern Management

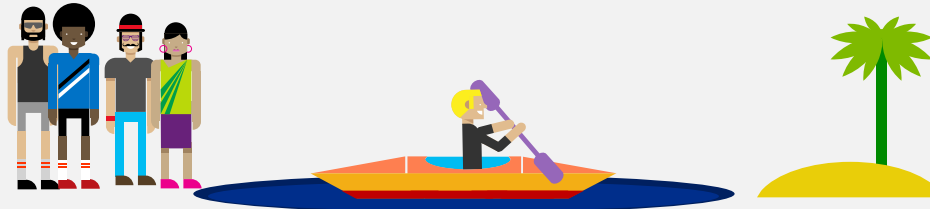
Cloud-first



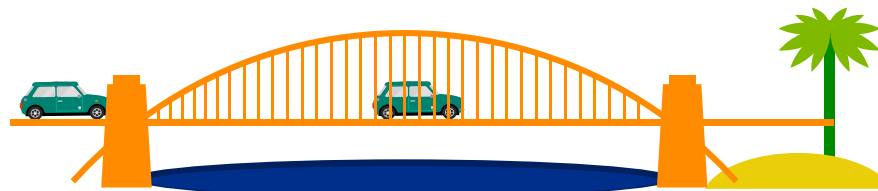
Big Switch Transition



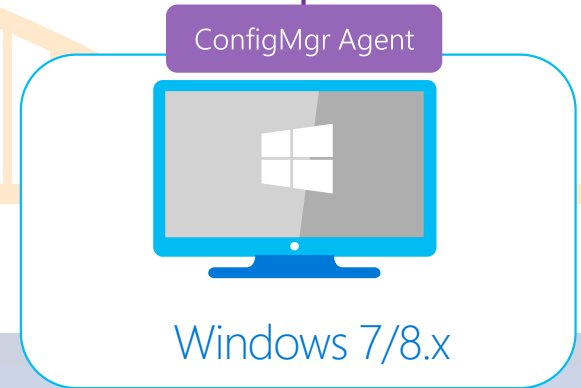
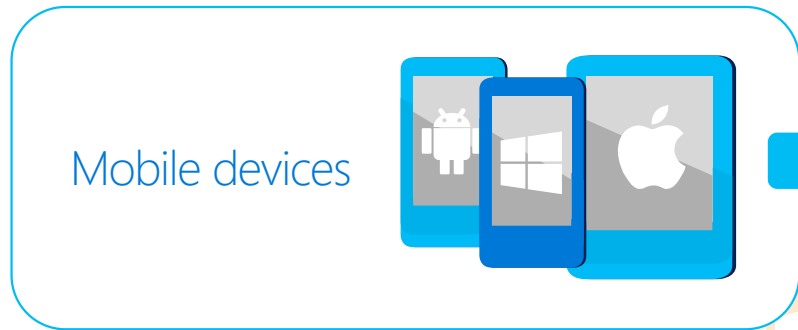
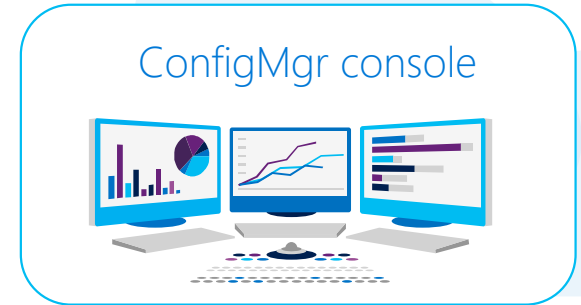
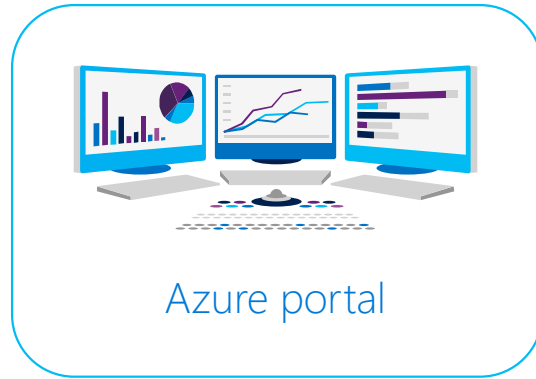
Group by Group Transition



Iterative ("Co-management")



Co-Management Architecture With ConfigMgr and Intune



MDM

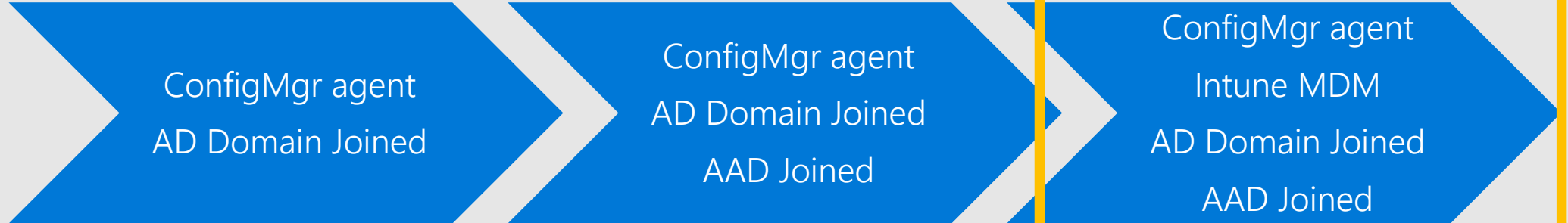
MDM

ConfigMgr Agent

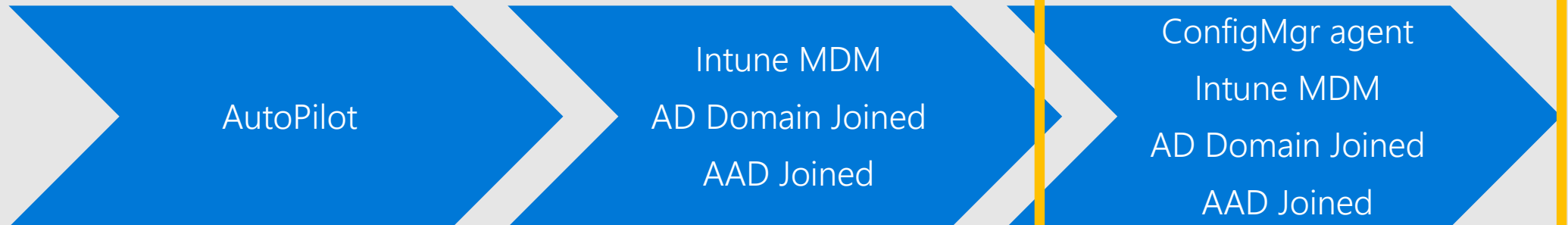
ConfigMgr Agent

How to get to co-management

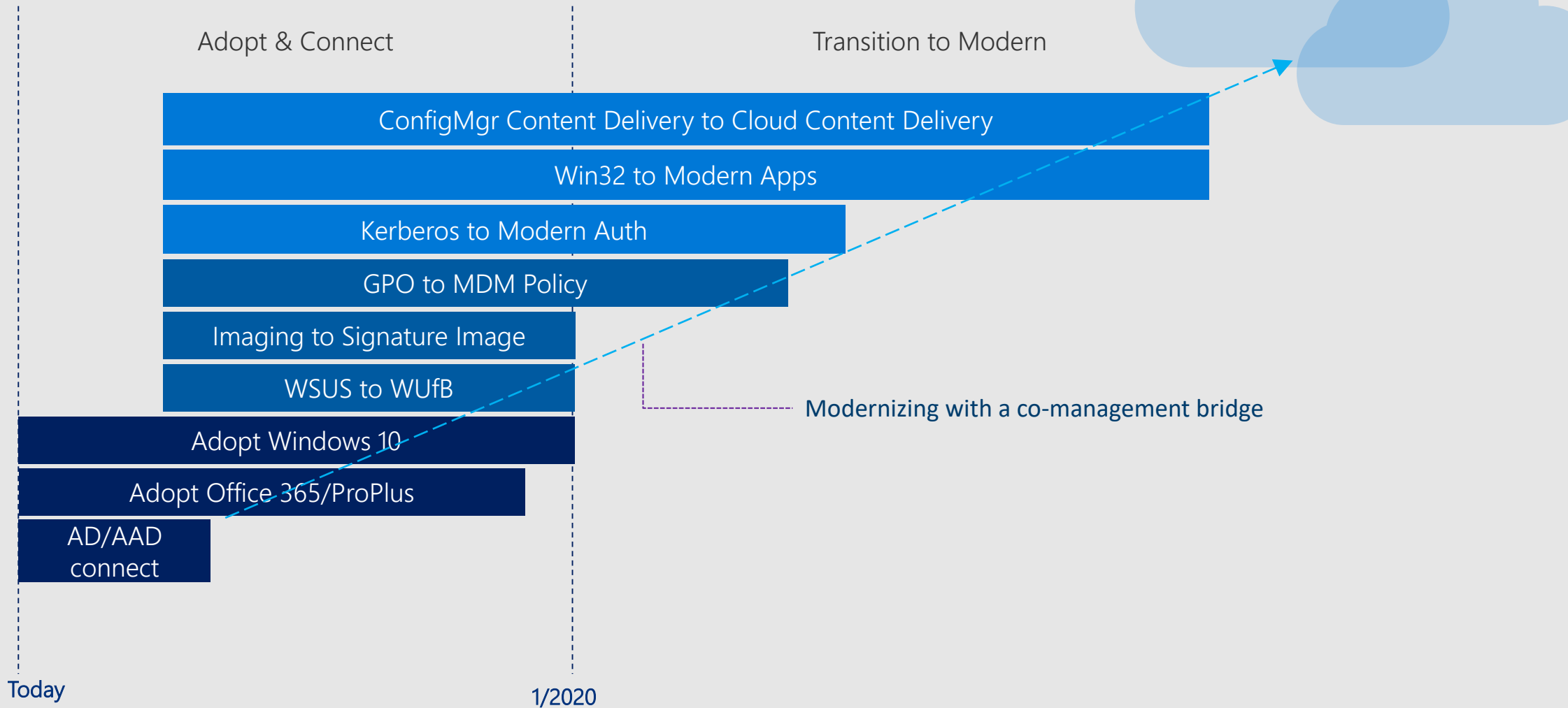
Existing ConfigMgr managed devices

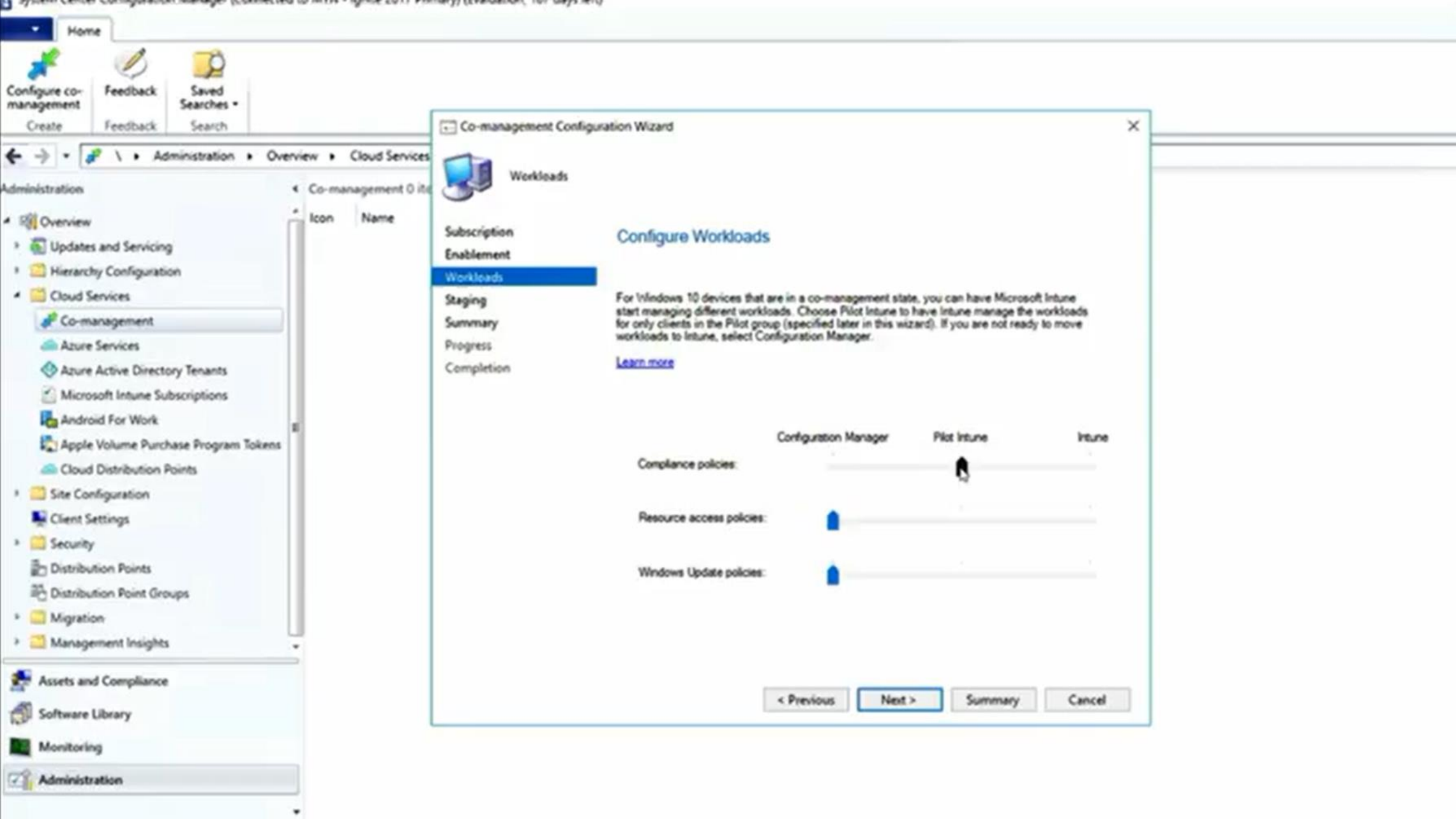


New devices

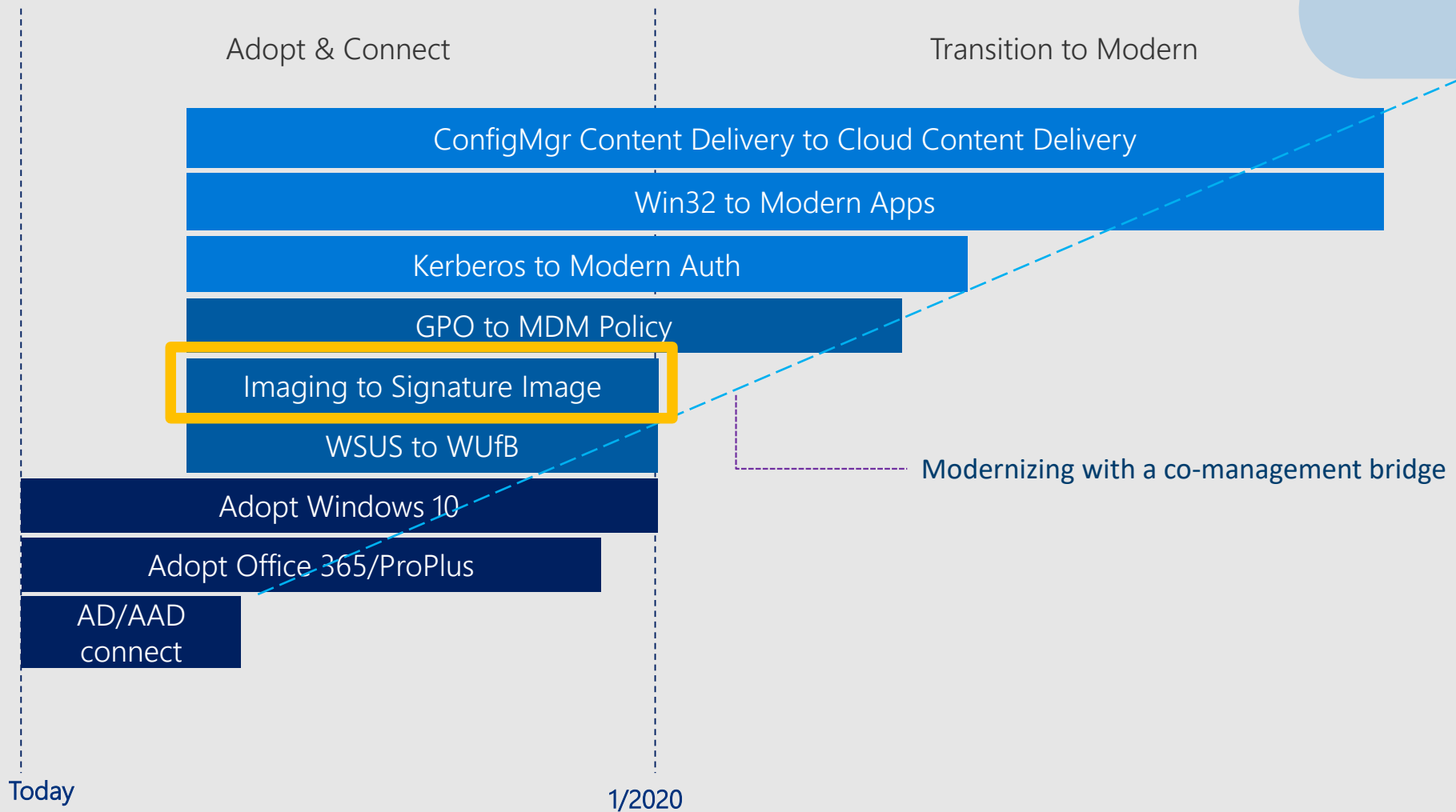


Bridging to Modern Management

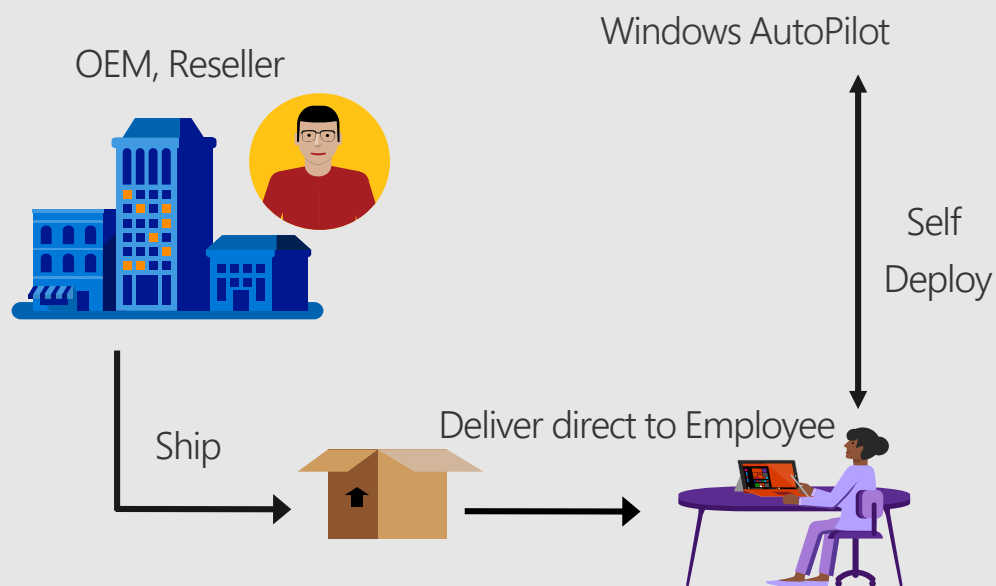




Bridging to Modern Management



Deployment with windows autopilot



- See it as Microsoft's version of Apple DEP program
- Device ID needs to be pre-enrolled (unknown computer scenario doesn't work)
- Joins Azure AD, Intune registration, deploys packages etc. automatically

 Microsoft Surface Book





Continue in English?

English

Français

Español

中文繁体

中文简体

Next



Let's start with region. Is this right?

United Arab Emirates

United Kingdom

United States

Uruguay

Uzbekistan

Vanuatu

Vatican City

Venezuela

Yes



Listening...



Is this the right keyboard layout?

Swedish

Norwegian

Danish

United States-International QWERTY

Albanian QWERTZ

Azerbaijani PUSUDB

Azeri Latin QUERTY

Belgian (comma) AZERTY

Yes

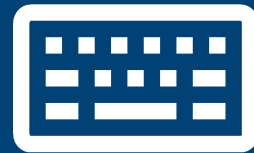


Listening...





Want to add a second keyboard layout?



Add layout

Skip







Listening...





Let's connect you to a network

-  **Eduroam**
Secured
 Connect automatically
[Connect](#)
-  **SLUTA KLAMPA I GOLVET**
Secured
-  **HHonors**
Secured
-  **Network4**
Open

Skip for now



Listening...





Enter your password



Eduroam
Secured

Enter the network security key

You can also connect by pushing the on the router.

Next

Cancel



SLUTA KLAMPA I GOLVET
Secured

Skip for now



Listening...





Enter your password



Eduroam
Secured

Enter the network security key

You can also connect by pushing the on the router.

Next

Cancel



SLUTA KLAMPA I GOLVET
Secured

Skip for now



Listening...





Great, you're connected!



Eduroam
Connected, secured

[Properties](#)

Disconnect



SLUTA KLAMPA I GOLVET
Secured



HHonors
Secured



Network4
Open

Skip for now



Listening...





Sign in with sunet.se

This device is registered to sunet.se. Enter your sunet.se email address



[Change account](#)

[Next](#)



Listening...



We're getting everything ready for you.

Don't turn off your PC



Setting up your device for work



Security setup complete



Network setup complete

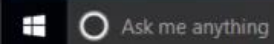


Application installation complete

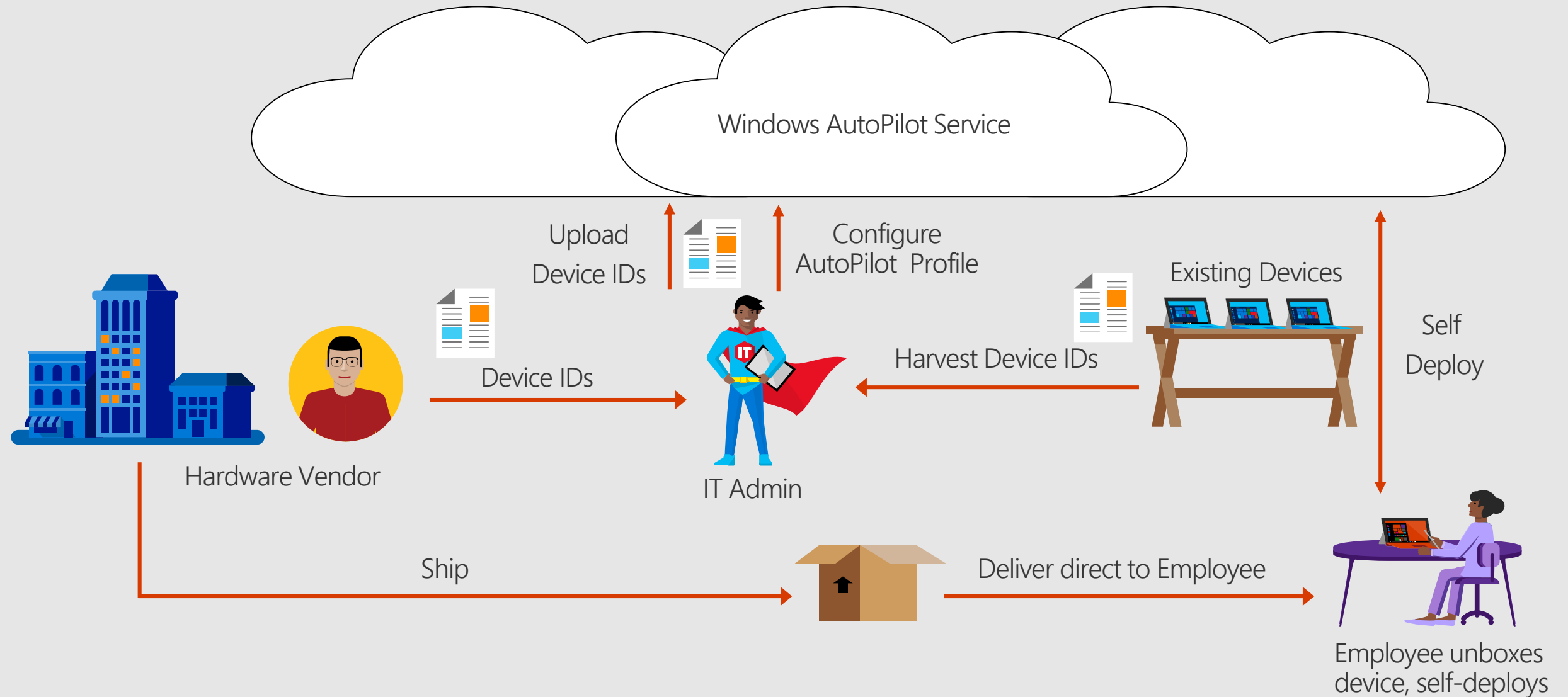
Leave everything to us. (Don't turn off this device.)



Recycle Bin



Windows autopilot in detail



Supported vendors to date

Lenovo



Panasonic




FUJITSU


TOSHIBA


Store + Script


- New
- Dashboard
- Intune
- Azure Active Directory
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Monitor
- Virtual networks
- Advisor
- Security Center
- Billing
- Help + support
- More services >


Dashboard + New dashboard ✎ Edit dashboard 🔗 Share 🖥 Fullscreen 📄 Clone 🗑 Delete

 Security Center

 Microsoft Intune

 Conditional access


 Software updates

 Mobile apps


Eastern Time (U... [Edit](#))

1:38 PM


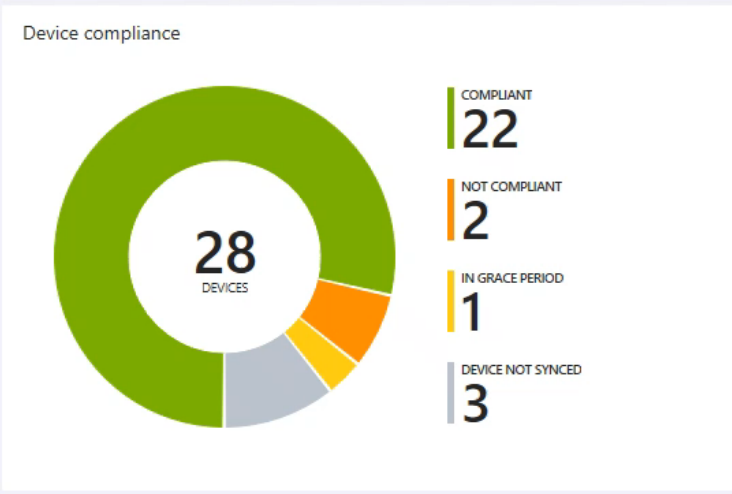
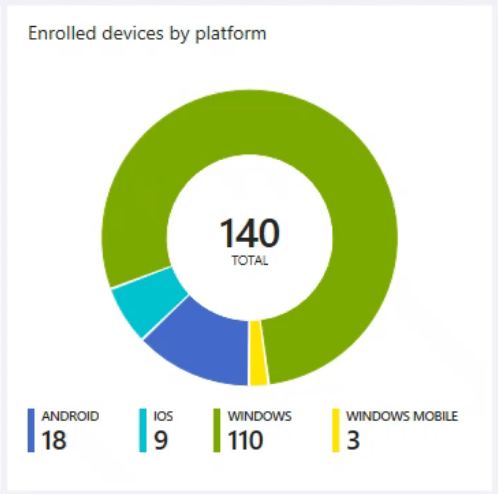
FRIDAY, SEPTEMBER 22, 2017

 Marketplace

 Directory - Ignite 2017

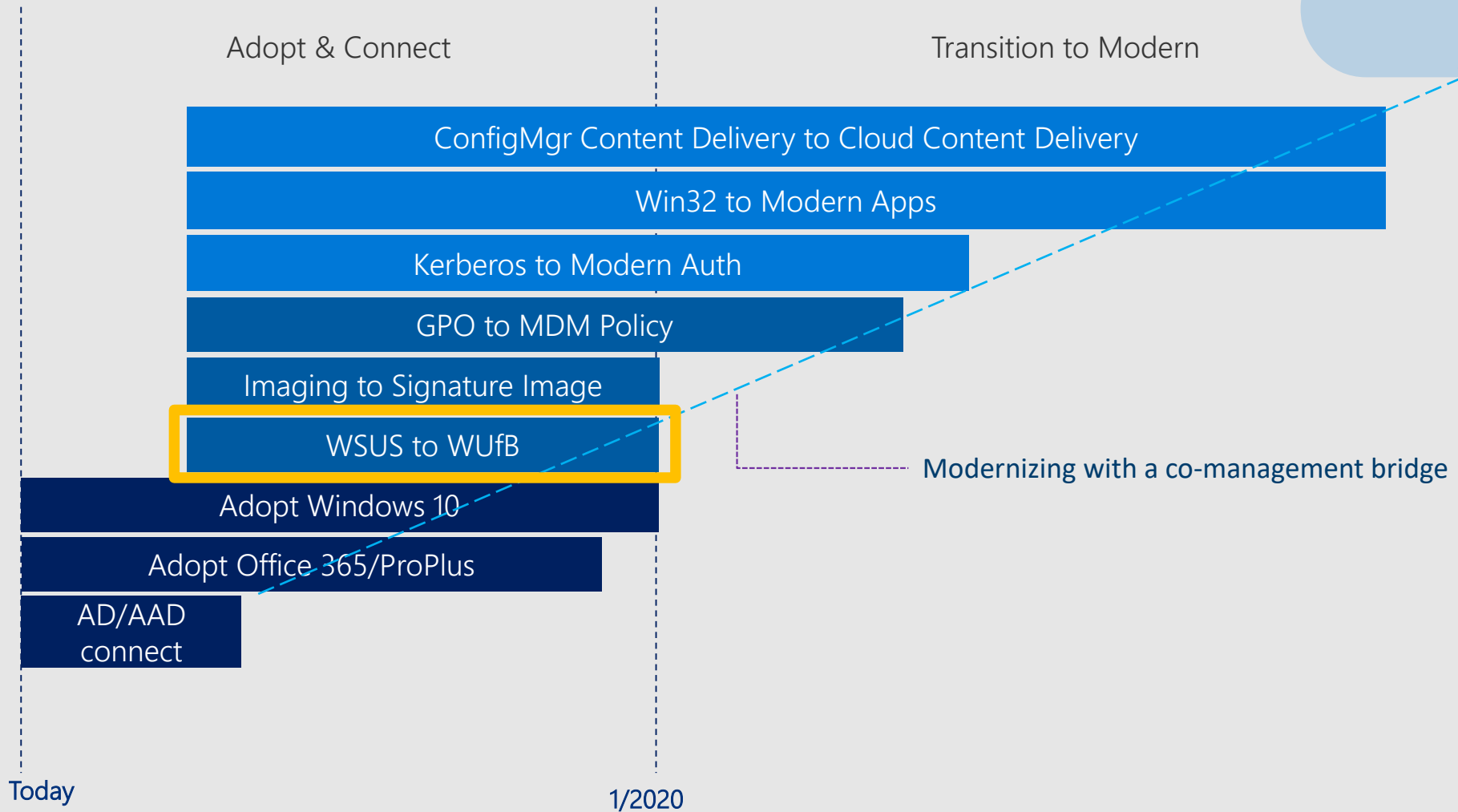
 Azure AD Identity Protection

Users and groups

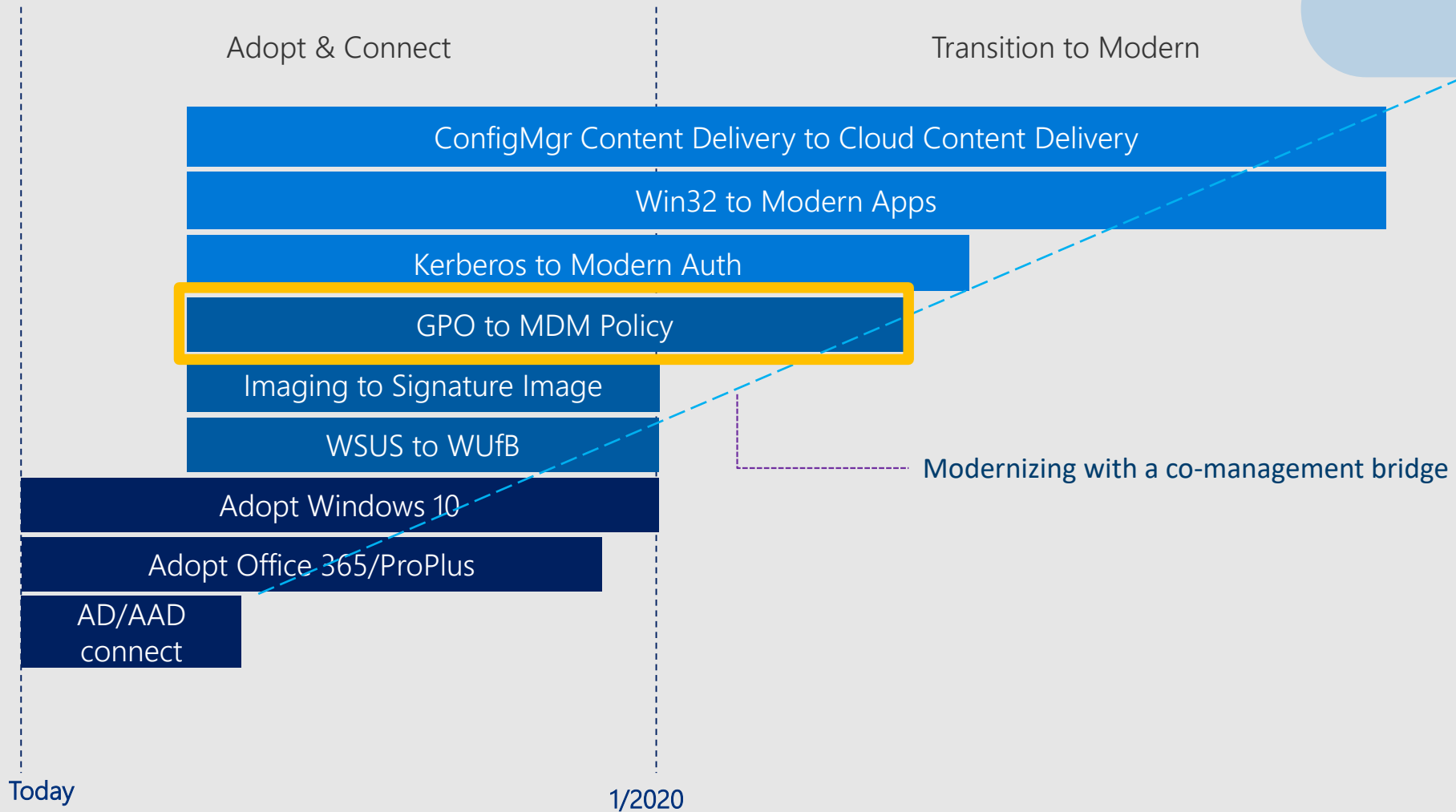



Co Management Requirements

Bridging to Modern Management



Bridging to Modern Management



MDM Migration Analysis Tool for IT Admins

- An easy-to-use tool which quickly shows you MDM support for the Group Policies your organization uses today.

The screenshot shows a Windows PowerShell terminal window on the left and a web browser window on the right. The terminal window displays the execution of the MMAT tool, including setting execution policy, running the analysis tool, and listing the contents of the tool's directory. The web browser window displays the MDM Migration Analysis Tool (MMAT) User Manual, showing the Executive Summary section.

```
TECH-WAD-HOL210: U: x + v
labondemand.com/Console/bd2a740d-a48d-48cb-a279-511d2a39f203?rc=10
TECH-WAD-HOL210: Using MMAT to accel
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> cd c:\mmat
PS C:\mmat> Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Scope Process

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the
you to the security risks described in the about_Execution_Policies help topic at
http://go.microsoft.com/fwlink/?linkID=135170. Do you want to change the execution policy
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"):
PS C:\mmat> $VerbosePreference=Continue
PS C:\mmat> .\Invoke-MdmMigrationAnalysisTool.ps1 -collectGPOResults -runAnalysisTool
VERBOSE: Starting analysis tool: <C:\mmat\Invoke-MdmMigrationAnalysisTool.ps1>..\MdmMigr
MDM Migration Analysis Tool, Copyright (C) Microsoft 2016.
Completed MDM Migration Analysis Tool
VERBOSE: Completed running analysis tool
PS C:\mmat> dir

Directory: C:\mmat

Mode                LastWriteTime         Length Name
----                -
d-----          7/6/2017 10:24 AM                collectGPOResults
d-----          6/8/2017 11:43 AM                sampleOutput
-a-----          7/6/2017 10:27 AM             12381 GPOResult-31B2F340-016D-11D2-945F-00C0
-a-----          7/6/2017 10:27 AM             24148 GPOResult-6AC1786C-016F-11D2-945F-00C0
-a-----         1/27/2017  8:03 AM             19195 Invoke-MdmMigrationAnalysisTool.ps1
-a-----          7/6/2017 10:27 AM             12378 MachineRsop.log
-a-----         1/27/2017  8:03 AM             748435 MDM Migration Analysis Tool Instruction
-a-----          7/6/2017 10:32 AM             16823 MDMMigrationAnalysis.html
-a-----          7/6/2017 10:32 AM             139723 MDMMigrationAnalysis.xml
-a-----          7/6/2017 10:27 AM              385 MDMMigrationAnalysisReportInformation.x
-a-----          7/6/2017 10:32 AM             1624 MdmMigrationAnalysisTool-PS1-Invocatio
-a-----         1/27/2017  8:03 AM             192512 MdmMigrationAnalysisTool.exe
-a-----          7/6/2017 10:32 AM              564 MdmMigrationAnalysisTool.log
-a-----         1/27/2017  8:03 AM             611840 MdmMigrationAnalysisTool.pdb
-a-----         1/27/2017  8:03 AM             33657 MDMMigrationAnalysisXmIToHtml.xslt
-a-----         1/27/2017  8:03 AM             99768 MDMPolicyMapping.xml
-a-----         1/27/2017  8:03 AM              1064 MIT_License.txt
-a-----         1/27/2017  8:03 AM              370 PartiallySupportedPolicyStrings.xml
-a-----         1/27/2017  8:03 AM              120 README.md
-a-----         1/27/2017  8:03 AM             2099 RegistryFilterList.xml
-a-----          7/6/2017 10:27 AM              2178 UserRsop.log
```

Content Machines Support

MDM Migration Analysis Tool (MMAT) User Manual

Executive Summary

What is this thing called MMAT?

More and more organizations want to move to mobile device management (MDM) to manage their devices including PC. For Windows 10 Creators Update, Microsoft is adding functionality to the Operating System itself to make transitioning to MDM easier. See additional documentation for more background.

Transitioning from Group Policy to MDM can be challenging. Some organizations have Group Policies that have been in place for over a decade and which may not be fully inventoried, never mind understood. Furthermore, MDM does not have a 1-1 mapping for all legacy Group Policies. While it is possible for an IT administrator to manually inventory Group Policy and cross reference MDM documentation on MSDN to determine the support level, this would be labor intensive and error prone.

Microsoft created the **MDM Migration Analysis Tool** – aka MMAT^[1] – to help. MMAT will determine which Group Policies have been set for a target user/computer and cross-reference against its built-in list of supported MDM policies. MMAT will then generate both XML and HTML reports indicating the level of support for each Group Policy in terms of MDM equivalents.

If you have a Group Policy targeting Minimum Password Length, for instance, MMAT will detect this and tell you that MDM also support this policy. If you

Windows Security Baselines

Check out the 1703 MDM security baselines here:

<https://aka.ms/mdm1703baselines>

Microsoft | TechNet

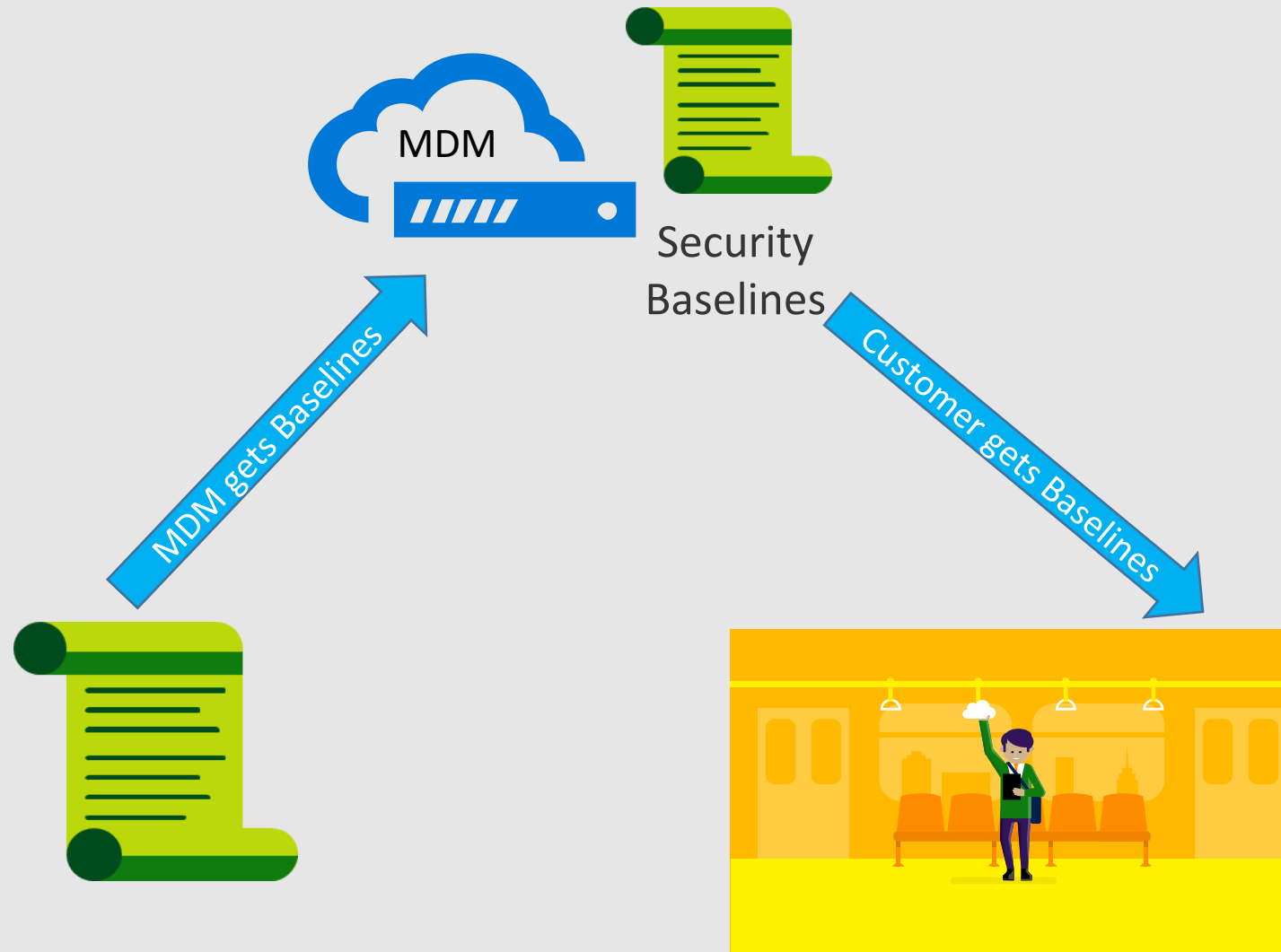
Microsoft Security Guidance blog

Security baseline for Windows 10 "Creators Update" (v1703) – DRAFT

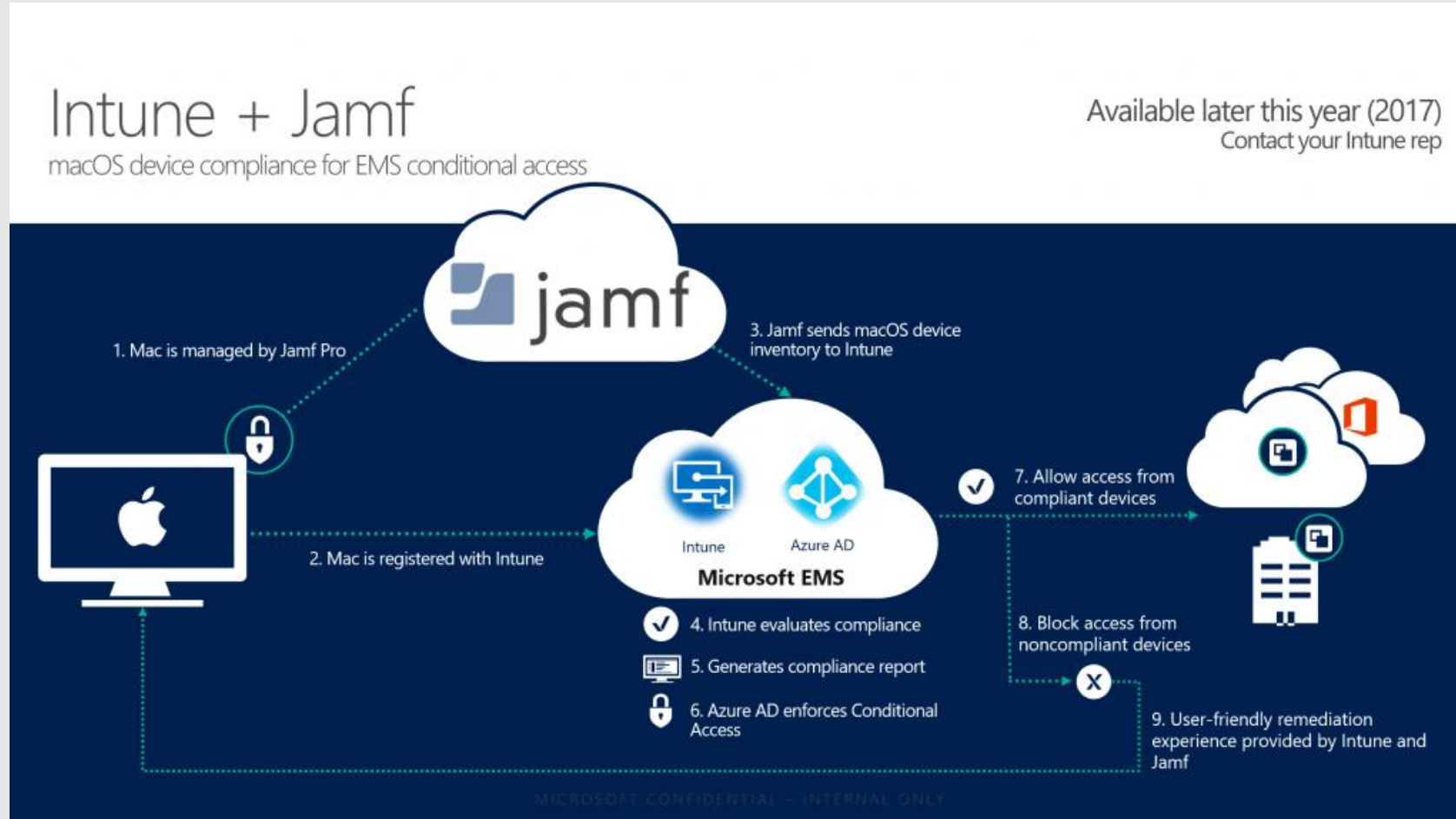
Mamta Kumar June 15, 2017 6

Microsoft is pleased to announce the beta release of the recommended security configuration baseline settings for Windows 10 "Creators Update," also known as version 1703, "Redstone 2," or RS2. Please evaluate this proposed baseline and send us your feedback via blog comments below.

Download the content here: [Windows-10-RS2-Security-Baseline](#)

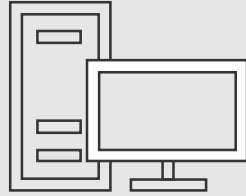


Whats new in Intune



<https://docs.microsoft.com/en-us/intune/whats-new>

Traditional vs. modern it



Traditional IT

Single Device

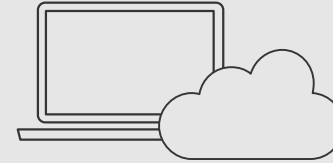
Business Owned

Corporate Network & Legacy Apps

Manual

Reactive

High-touch



Modern IT

Multiple Devices

User and Business Owned

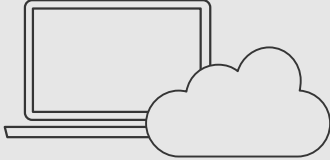
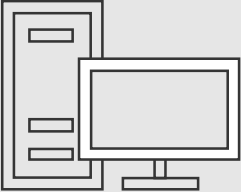
Cloud Managed & SaaS Apps

Automated

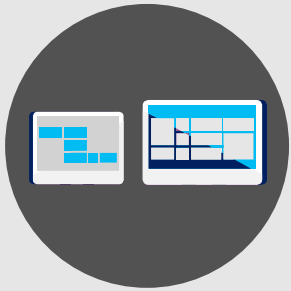
Proactive

Self-Service

Traditional vs. modern it – tools



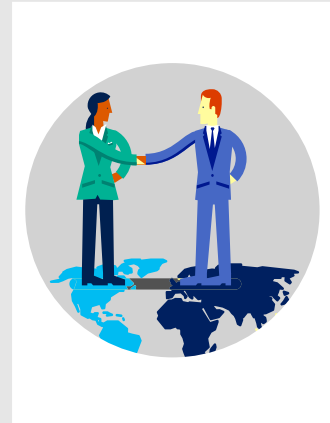
challenges moving to modern management



Feature gaps



The monolithic
"One Day" problem



Partner and home
grown solutions



Windows 7