

Intune Driver & BIOS Control



- **Jan Ketil Skanke**
- Principal Cloud Architect at CloudWay
- Twitter @JankeSkanke
- MVP / MCT



- **Maurice Daly**
- Senior Cloud Architect at CloudWay
- Twitter @modaly_it
- MVP

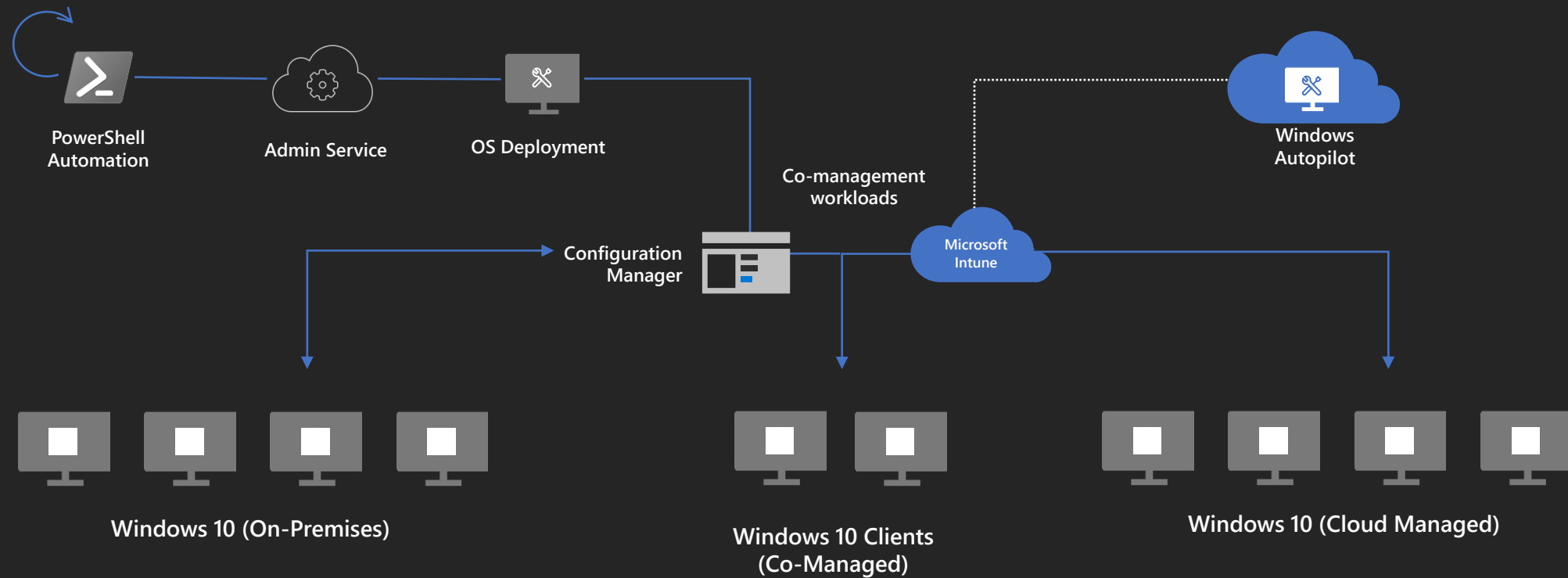
In the beginning

The Challenges of moving to “modern”

- Decades old processes are often hard to let go of
- Internal blockers from staff
- Comparing like for like and focusing on the missing components
- The “it won’t work” approach

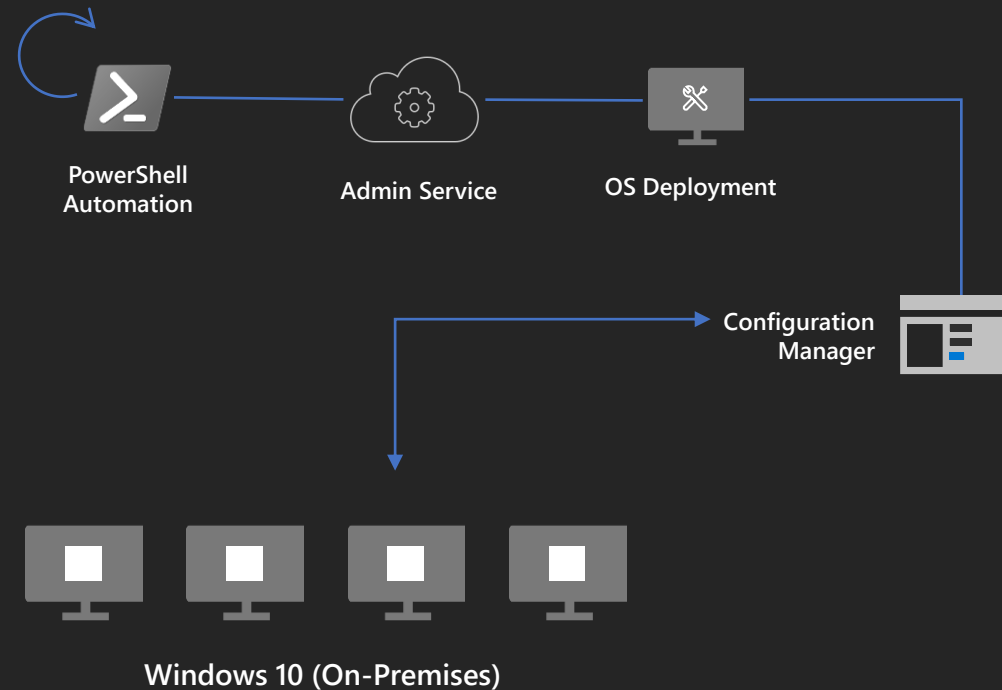
Let us understand the differences first, and work around them, and show you some cool stuff

Traditional Processes vs Modern Processes



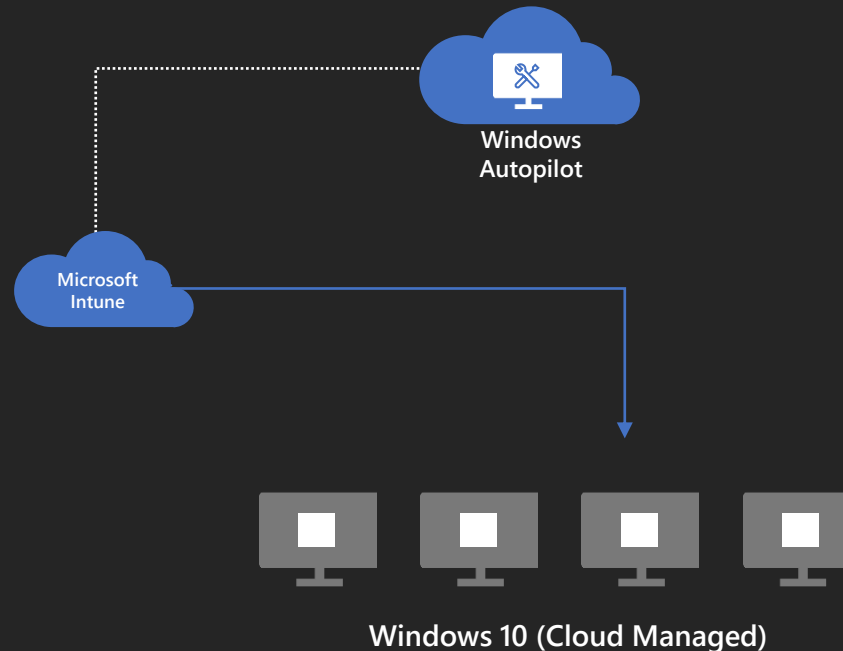
Traditional OSD (ConfigMgr) Overview

- OS Deployment
 - Traditional method
 - Admin Service
 - Custom Web Service
 - Custom Front Ends
 - PowerShell
- Post OS Maintenance
 - PowerShell
 - OEM Software



Intune Management Overview

- Windows Autopilot
 - Win32 Apps
 - PowerShell
- Post Deployment
 - How to control driver and firmware updates post provisioning?
 - OEM software solutions?





←
**Then this
happened**
(As if we need reminding)

The Challenge We Face Today

- Organisations have had to make big shifts in the way they manage devices
 - Home workers are now the norm
 - The desire to use Intune managed devices has seen massive growth due to this
- IT departments which to maintain the status quo
 - Provide the business with like for like functionality
 - Automate as much as possible
 - Port existing automation processes as much as possible

Give me all the laptops

The challenge of supporting multiple vendors

- Due to the pandemic, a single vendor choice is something we no longer have the luxury of
- The traditional OS deployment model is being evaluated
- Can Windows Autopilot serve the needs of the organisation?

“Make IT happen” – no excuses!



OEM Solutions for Intune devices

- Most OEM's provide solutions, not all are equal....



Built in support for driver and
firmware updates through WUfB



Lenovo System Update



Dell Command Update



HP Tech Pulse | CMSL

HP Solutions for Intune devices

HP Client Management Script Library

How to do things the right way

- Install the CMSL from the PowerShell Gallery
 - Install-Module –Name HPCMSL*

The NuGet Package Provider needs to be updated
The PowerShellGet module needs to be updated

- Automate driver and BIOS updates via PowerShell
This sounds a bit more familiar



HP CMSL PowerShell
Module

Demo

Install and Maintain the HP CMSL Module
(Proactive Remediations)

Building an OEM scripted solution

- Upgrade the HP BIOS
 - Get-HPBIOSUpdates
 - List all available updates
 - Get-HPBIOSUpdates –Flash
 - Update system to the latest BIOS release
- Install all SoftPaqs
 - Get-SoftPaqList | Get-SoftPaq –Action Install
 - Download, extract, and install the latest drivers

Easy right!?..

```
Administrator: Windows PowerShell

---  ---  ---
1.03.02 2020-11-04 S73_01030200.bin

PS C:\WINDOWS\system32> Get-HPBIOSUpdates

Ver      Date      Bin
---      -
1.03.02 2020-11-04 S73_01030200.bin
1.01.07 2020-08-24 S73_01010700.bin
1.01.06 2020-06-30 S73_01010600.bin
1.01.05 2020-05-24 S73_01010500.bin

PS C:\WINDOWS\system32> Get-WmiObject -Class win32_computersystem

Domain           : WORKGROUP
Manufacturer      : HP
Model             : HP ZBook Firefly 14 G7 Mobile Workstation
Name              : CLOUDWAY-MD003
PrimaryOwnerName  : HP Inc.
TotalPhysicalMemory : 34122080256

PS C:\WINDOWS\system32> Get-WmiObject -Class win32_bios

SMBIOSBIOSVersion : S73 Ver. 01.01.07
Manufacturer       : HP
Name               : S73 Ver. 01.01.07
SerialNumber       : 5CG0295PRT
Version            : HPQOEM - 0
```

Demo

Running the CMSL



Proceed with Caution

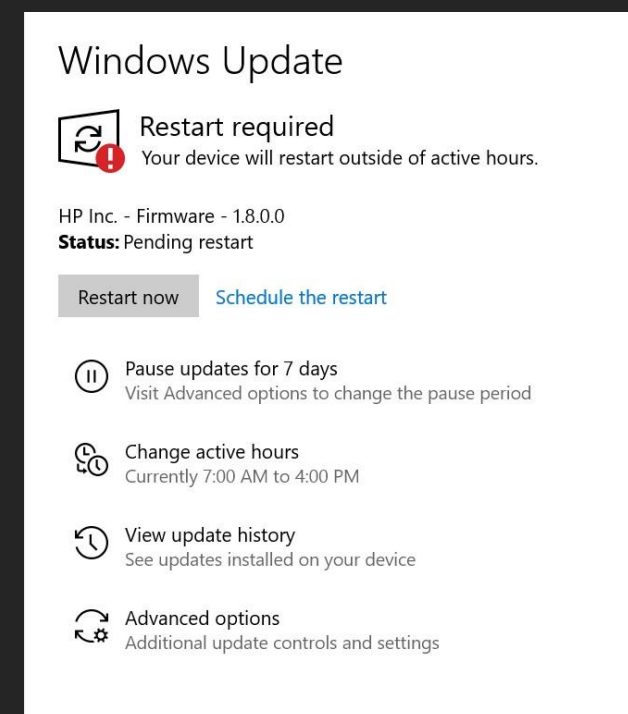
HP Windows Update Voodoo

- Support for firmware updates through the normal update process
- Leverages a mechanism built into the Unified Extensible Firmware Interface (UEFI) standard called UEFI Capsule
- Worried? Need to disable this?



Set-HPBIOSSettingValue -Name "Native OS Firmware Update Service" -Value "Disable"

h10032.www1.hp.com/ctg/Manual/c06696094



Control Is Good

Driver and BIOS / Firmware updates can have undesired results

- Administrative Control / Phased Upgrades
 - Providing a controlled method for testing upgrades is key to many organisations
 - It verifies stability prior to mass deployment
 - Consistent experience as we have today with Configuration Manager



Driver Automation Tool V7 (Coming Soon)



Enhancements

- Windows 10 20H2 Support

New Features

- Intune XML control support
- Azure storage blob creation (Provisioning mode)
- Azure storage blob uploads (XML & packages)
- Automatic updating

In Progress

- Win32 driver packages

Driver Automation Tool: Version 7.0.0

MSEndpointMgr

Driver Automation Tool
Automates the process of downloading, extracting and importing Driver and BIOS updates into Configuration Manager, Intune, MDT and other OS deployment solutions

Make & Model Selection	OEM Driver Catalogs	Common Settings	ConfigMgr Settings	MDT Settings	ConfigMgr Packages
ConfigMgr Web Service Diags	Custom Package Creation	Intune Driver Control	Intune BIOS Control	Process Log	About

Intune BIOS Control

BIOS Management | **Onboarding**

Intune BIOS control uses the logic XML package created by this tool to control the BIOS update release version being applied through Proactive Remediations. In order to upload the XML logic packages, an Azure storage blob is required, and you must have suitable licensing.

Below you will see the list of subscriptions, resources, locations, and storage accounts for use with this process as part of the provisioning switch you have opted in for when launching this tool.

Select Subscription:

Select Resource Group:

Select Location:

Storage Account Name:

Status:

Tenant / Storage Information

Resource Group Name ---

Subscription ID ---

Tenant ID ---

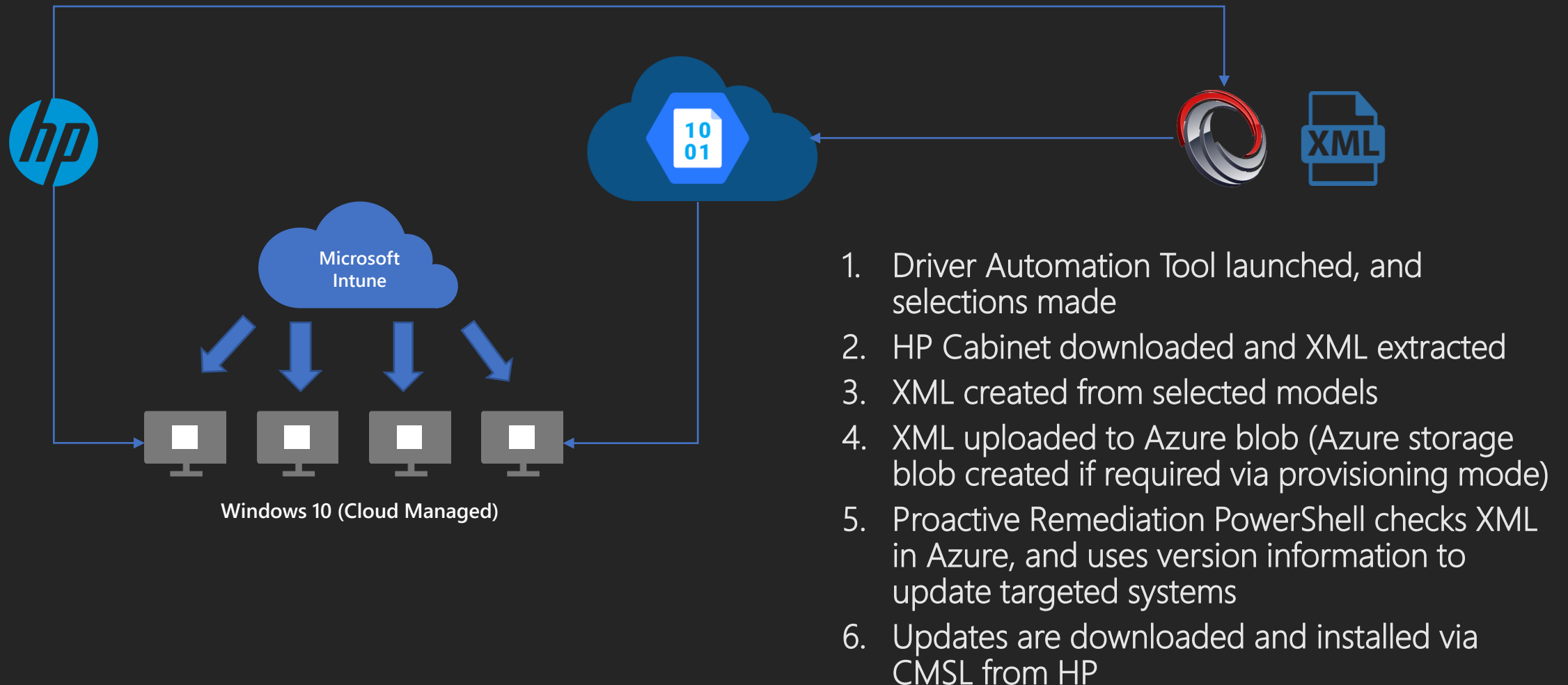
Storage Location ---

Storage URL ---

Tenant Settings Validation

Please note that this control will only be active when using the -AzureProvisioning True command line option, or when running the "Driver Automation Tool - Azure Provisioning" from the Start Menu.

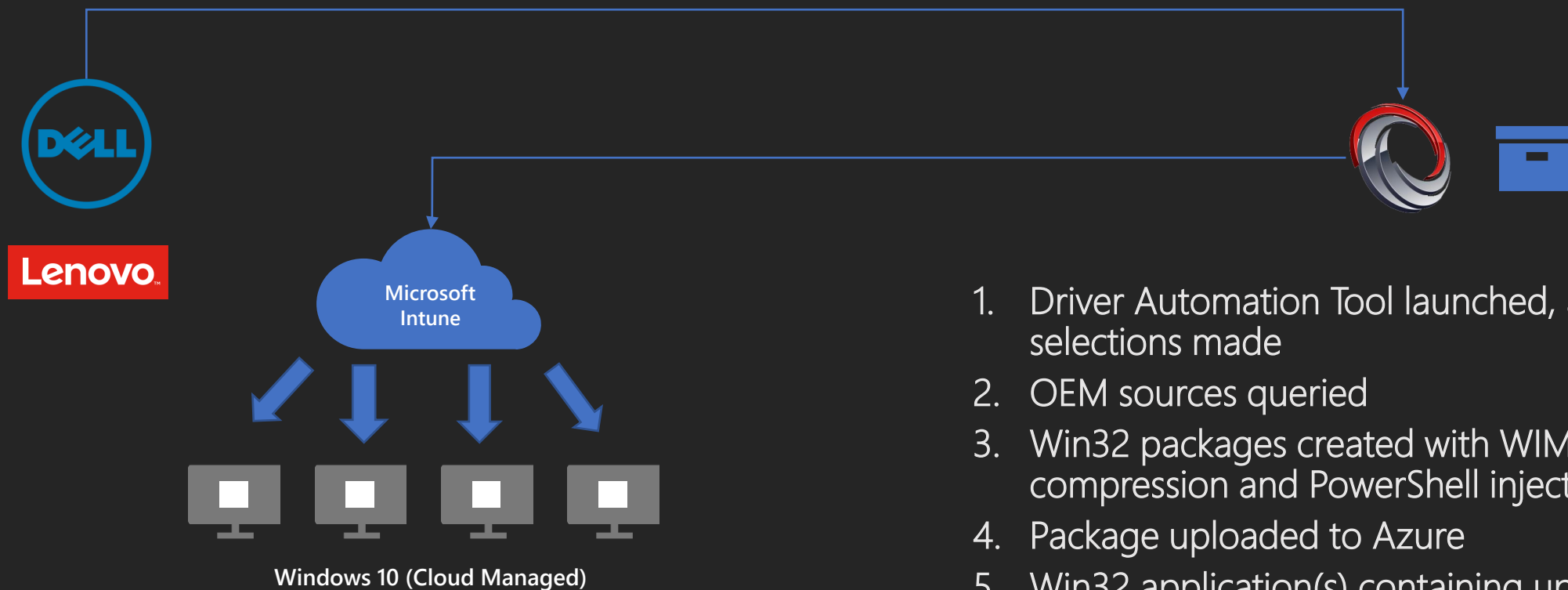
Intune Driver & BIOS Control Workflow



Demo

The new total control method

In Progress.. Dell & Lenovo Support



1. Driver Automation Tool launched, and selections made
2. OEM sources queried
3. Win32 packages created with WIM compression and PowerShell injection script
4. Package uploaded to Azure
5. Win32 application(s) containing updated drivers / firmware targeted at devices
6. Win32 package downloaded and installed

Thank you!

- Jan Ketil Skanke
- @JankeSkanke



- Maurice Daly
- @modaly_it



Modern Management User Group Norway
#MMUGNO

MSEndpointMgr.com
#MSEndpointMgr

System Center User Group Sweden
#SCUGSE

System Center User Group Finland
#SCUGFI

System Center User Group Denmark
#SCUGDK