Modern Management of Windows -Intune & Autopilot



Who am I



Terence Beggs Senior Systems Officer - London Metropolitan University

- Specializing in SCCM, Intune, Azure, Office 365 and PowerShell
- Blogger www.SCConfigMgr.com
 - We focus on all things Windows, PowerShell, Azure, EMS and Automation.

NOTE: I used slides from BRK3031 - Deploying Windows 10 - User-driven cloud deployment with Windows AutoPilot from Ignite 2017



Jordan Benzing



Zeng (AKA Sandy) Yinghua BLOGGER



What is Autopilot?

With Microsoft Intune and AutoPilot, you can give new devices to your end users without the need to build, maintain, and apply custom operating system images to the devices.

When you use Intune to manage AutoPilot devices, you can manage policies, profiles, apps, etc. on the devices after they are enrolled



Self-Service Deployment



What Autopilot allows you to do

- Automatically join devices to Azure Active Directory (Azure AD)
- Auto-enroll devices into MDM services, such as Microsoft Intune (Requires an Azure AD Premium subscription)
- Restrict the Administrator account creation
- Create and auto-assign devices to configuration groups based on a device's profile
- Customize OOBE (some) content specific to the organization



What Autopilot is not

- Autopilot is not an SCCM imaging replacement
- It is an alternative to OSD not a replacement (yet)
- Does not replace Active Directory AD Join
- Intune MDM polices are not the same as GPO's



Traditional versus Modern



Traditional on-prem

Active Directory

Domain Join

Group Policy

System Center Configuration Manager

Windows 10 designed for modern IT



• Custom images are not allowed.



- Custom images are not allowed.
- Employees have to accept the organizations EULA







Off-the-shelf and Shrink-wrapped Devices

- Custom images are not allowed.
- Employees have to accept the organizations EULA
- Non-trivial decisions are confusing (Personal vs Corporate Owned, Privacy Settings, OEM Registration) generates Helpdesk calls







Off-the-shelf and Shrink-wrapped Devices

- Custom images are not allowed.
- Employees have to accept the organizations EULA

• Non-trivial decisions are confusing (Personal vs Corporate Owned, Privacy Settings, OEM Registration) generates Helpdesk calls





Off-the-shelf and Shrink-wrapped Devices

- Custom images are not allowed.
- Employees have to accept the organizations EULA
- Non-trivial decisions are confusing (Personal vs Corporate Owned, Privacy Settings, OEM Registration) generates Helpdesk calls





- Custom images are not allowed.
- Employees have to accept the organizations EULA
- Non-trivial decisions are confusing (Personal vs Corporate Owned, Privacy Settings, OEM Registration) generates Helpdesk calls





Off-the-shelf and Shrink-wrapped Devices

- Custom images are not allowed.
- Employees have to accept the organizations EULA
- Non-trivial decisions are confusing (Personal vs Corporate Owned, Privacy Settings, OEM Registration) generates Helpdesk calls
- OOB account is always Admin majority of enterprises want standard accounts on corp-owned devices



OEM/Reseller
Ship
Deliver direct to Employee

Off-the-shelf and Shrink-wrapped Devices

- Custom images are not allowed. •
- Employees have to accept the organizations EULA ۰
- Non-trivial decisions are confusing (Personal vs Corporate • Owned, Privacy Settings, OEM Registration) generates Helpdesk calls
- OOB account is always Admin majority of enterprises want ٠ standard accounts on corp-owned devices



- Custom images are not allowed. •
- Employees have to accept the organizations EULA ۰
- Non-trivial decisions are confusing (Personal vs Corporate • Owned, Privacy Settings, OEM Registration) generates Helpdesk calls
- OOB account is always Admin majority of enterprises want ٠ standard accounts on corp-owned devices



INTRODUCING WINDOWS AUTOPILOT



Prerequisites for AutoPilot

- 1. Devices must be registered to the organization
- 2. Company branding needs to be configured
- 3. Network connectivity to cloud services used by Windows AutoPilot
- 4. Devices have to be pre-installed with Windows 10 Professional, Enterprise or Education, of version 1703 or later
- 5. Devices must have access to the internet
- 6. Azure AD Premium P1 or P2
- 7. Users must be allowed to join devices into Azure AD
- 8. Microsoft Intune or other MDM services to manage your devices





Step 1:Create AutoPilot Profile

Sign into the Windows Store for Business







Step 2: Gather AutoPilot Device



Michael Niehaus has created a PowerShell module to gather data.

https://www.powershellgallery.com/ packages/Get-WindowsAutoPilotInfo/1.1/ DisplayScript

Step 2: Gather AutoPilot Device



Step 3: Import AutoPilot Device Data

Devices Get more	info		
Search devices	,P Refine results:	while All - Group All -	
+ Add devices S AutoPi	lot deployment ~		
Device mode:	Auta	Sere runner	Windows product O

Demo – AutoPilot in action





Let's start with region. Is this right?





Is this the right keyboard layout?

Canadian Multilingual Standard English (India) Scottish Gaelic United States-Dvorak United States-Dvorak for left hand



Want to add a second keyboard layout?



Add layout

Skip

? ? Listening...

Let's connect you to a network



Skip for now

??

Now let's get you connected to a network. That way you get updates, apps and cat videos as soon as possible. How about the first one on the list? Want to use that one?

?











Enter your SCConfigMgr email





Enter your SCConfigMgr email



Terence@SCConfigMgr.com

Need help?

Please sign in with your SCConfigMgr email address

hange account Privacy & Cookies Terms of Use

Next



?



Enter your SCConfigMgr email



?

This might take several minutes

Don't turn off your PC



Windows Hello and AutoPilot

If your using Windows Hello in Azure then the end user can setup a pin. Also provides additional security using MFA



Help us protect your account

....

We've sent a notification to your mobile device. Please respond to continue.

Use a different verification option



×







We're getting everything ready for you.

Don't turn off your PC

This might take several minutes.

We want everything to be ready for you.

Don't turn off your PC

Let's Start!

Demo – Post AutoPilot Setup

- Apps: Company Portal, Office 365
- Desktop Apps: Using package manager Chocolaty(Chrome, Firefox, VLC etc)
- Device Configuration: Bitlocker, Security Profiles, Start Menu, Desktop Experience, Lockscreen
- Device Compliance: Bitlocker
- PowerShell Script: OneDrive Config, Driver Update





Demo – Automatic Redeployment

So what happens if the end user needs their machine rebuilt. Do they call IT Support?

Well no, they can do it themselves from anywhere they like.





13:51 Monday 15 January



Ð.



Feel free to contact me.

ur Website <u>http://</u> ww.scconfigmgr.com/

CConfigMgr <u>@SCConfigMgr</u>

Contact

Details

Terence Beggs

@TerenceBeggs