

Designing and building your Microsoft Endpoint Manager/Intune environment for Operations

Kenneth van Surksum



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### **About "Kenneth van Surksum"**

#### **Focus**

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### **Certifications**

Microsoft 365 Certified Enterprise Administrator



Microsoft Certified Azure Solutions Architect

### **Hobbies**

Cooking on my Kamado Joe & Sports



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# Our topics for Today!



Problem statement

Of course, I mean "Challenge"

Assigning to users or devices?

My way of doing it

Key takeaways

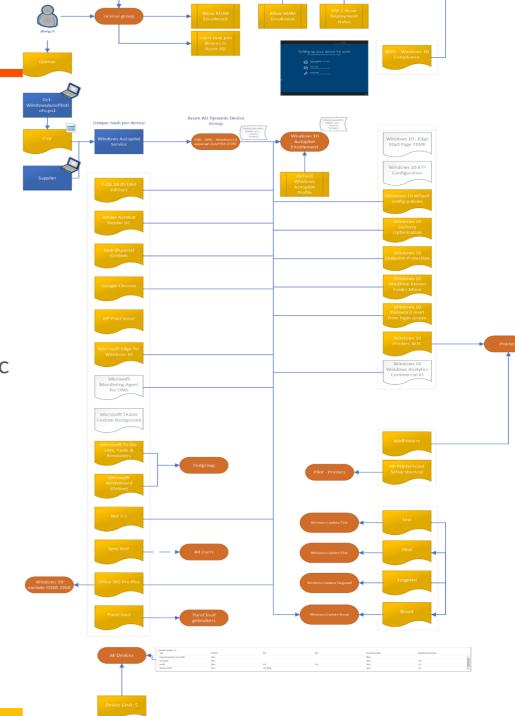
**DEMO's** 



### **Problem statement**

#### No structure

- Sometimes Applications are assigned to user groups, sometimes to all devices and sometimes to a device group without any logical reasoning behind it
- Configuration profiles assigned to device groups, user groups, all devices, all users without any logical reasoning behind it
- Not all devices have the same settings applied for unspecific reasons
- Conflicting and errors for settings applied
  - When investigating devices have errors or receive conflicting settings
- Enrollment fails for unspecified reasons in some circumstances
  - When device limit for "accounts used to test" are reached
  - When a group membership necessary for the solution to work is forgotten to be added



# Goals for success and designing for Operations



- The requirements of the customer are met
- Device configuration is consistent and error free
- People administering the solution after being handed over know what to do and have a stable environment
- There is a process in place, to introduce changes in a controlled way into the environment.

# Assigning to users or devices?

### **Assigning to users**

 Use user groups when you want your settings and rules to always go with the user, whatever device they use.

### **Assigning to devices**

- If you want to apply settings on a device, regardless of who's signed in, then assign your profiles to a devices group. Settings applied to device groups always go with the device, not the user.
- Use device groups when you don't care who's signed in on the device, or if anyone is signed in. You want your settings to always be on the device.

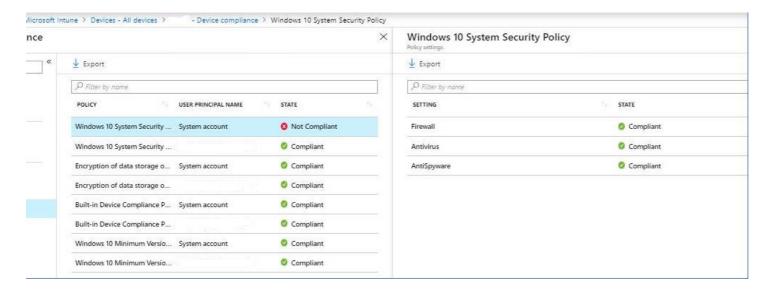
Also see: Intune: Choosing whether to assign to User or Device Groups

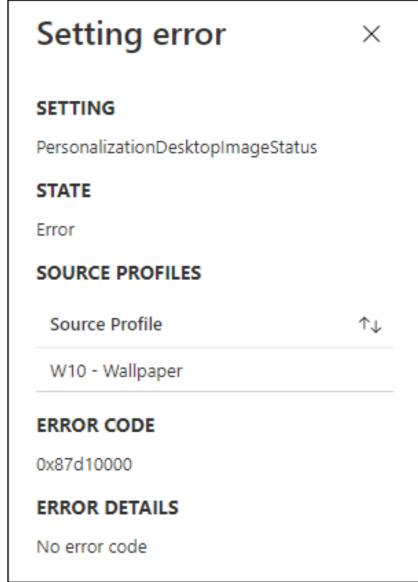
# Assignment options

Include				
Exclude	Assigned User	Assigned Device	Dynamic User	Dynamic Device
Assigned User	<b>\</b>		<b>\</b>	
Assigned Device		<b>\</b>		<b>/</b>
Dynamic User	<b>~</b>		<b>\</b>	
Dynamic Device		<b>~</b>		<b>~</b>

# Challenges

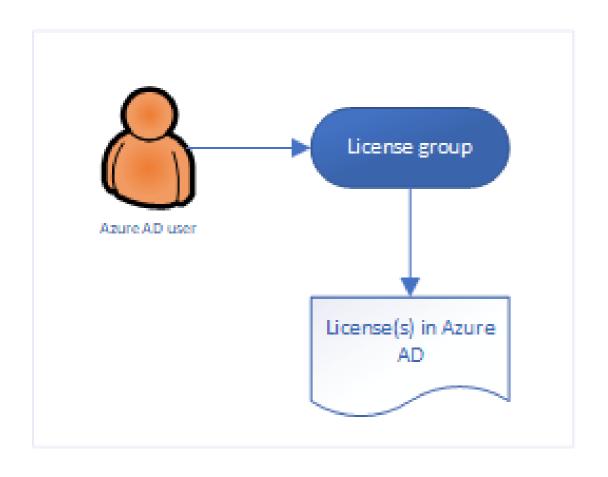
- Assign wallpaper to device group, gives error when applying to "System" account
- Assigning Compliance Policy to device group could cause the device to become noncompliant because of the "System" account as well

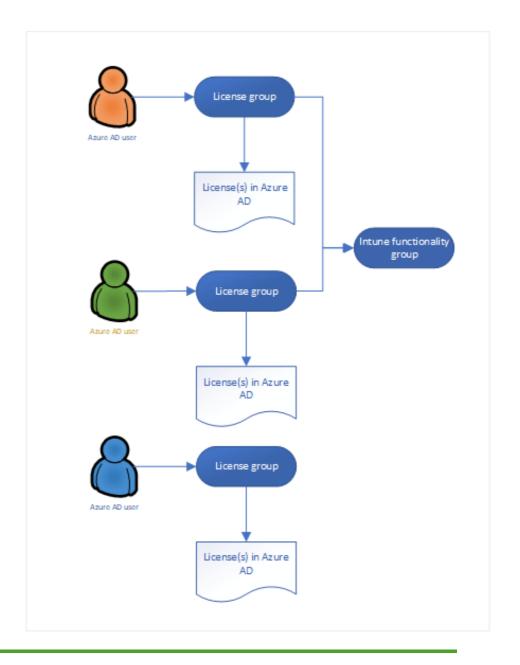




Where	Functionality	Options	Option	Assignment types	Option2	Assignment types
Azure AD	Allow MDM Enrollment	None/Some/All	Some	UG/DG		
	Allow MAM Enrollment	None/Some/All	Some	UG/DG		
	Users may join devices to Azure A	None/Selected/All	Selected	UG/DG		
	Device Type Restrictions	Default	Include groups	UG/DG		
	Device Limit Restrictions	Default	Include groups	UG/DG		
	Enrollment Status Page	Default	Include groups	UG/DG		
	Deployment Profile		Included groups	UG/DG/AD	Excluded Groups	UG/DG
	Compliance Policy		Included groups	UG/DG/AU	Excluded Groups	UG/DG
	Scripts		Included groups	UG/DG		
	Configuration Profiles		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Feature Updates		Included groups	UG/DG	Excluded Groups	UG/DG
	Update Rings		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Policy sets		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Applications		Required (Incl/Excl)	UG/DG/AU/AD	Available for enrolled devices (Incl/Exc	UG <del>/DG</del> /AU
					Uninstall (Incl/Excl)	UG/DG/AU/AD
	Policies for Office apps		Included groups	UG/DG/Anonymous		
	S mode supplemental policies		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Security Baselines		Included groups	UG/DG	Excluded Groups	UG/DG
	Anti-Virus		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Disk Encryption		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Firewall		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Endpoint detection and response		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Attack surface reduction		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG
	Account protection		Included groups	UG/DG/AU/AD/AUD	Excluded Groups	UG/DG

# **Use Group Licensing**





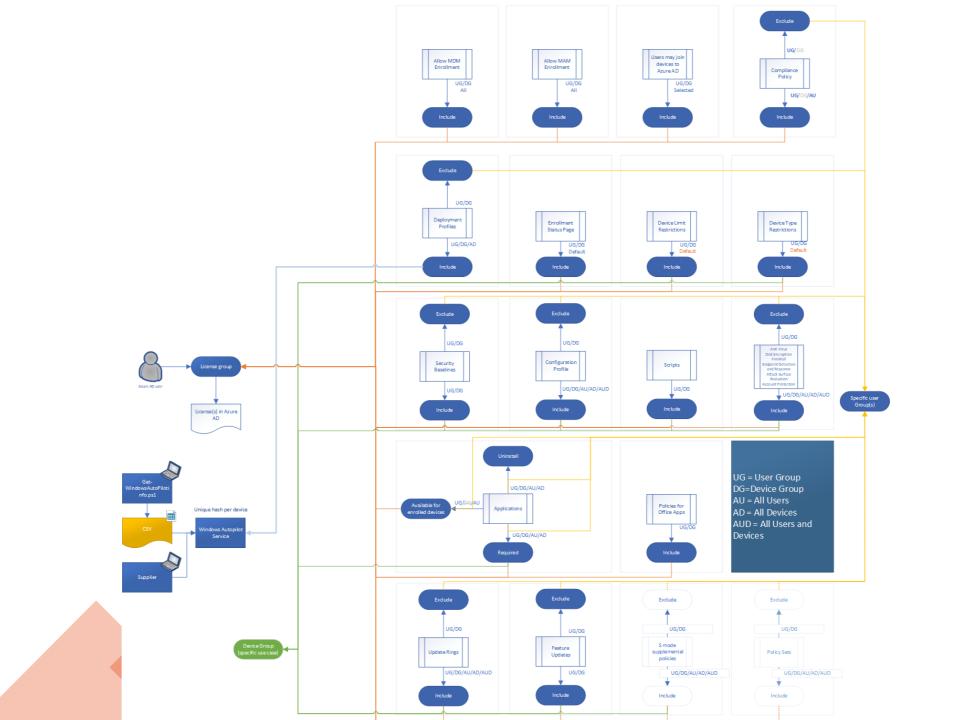


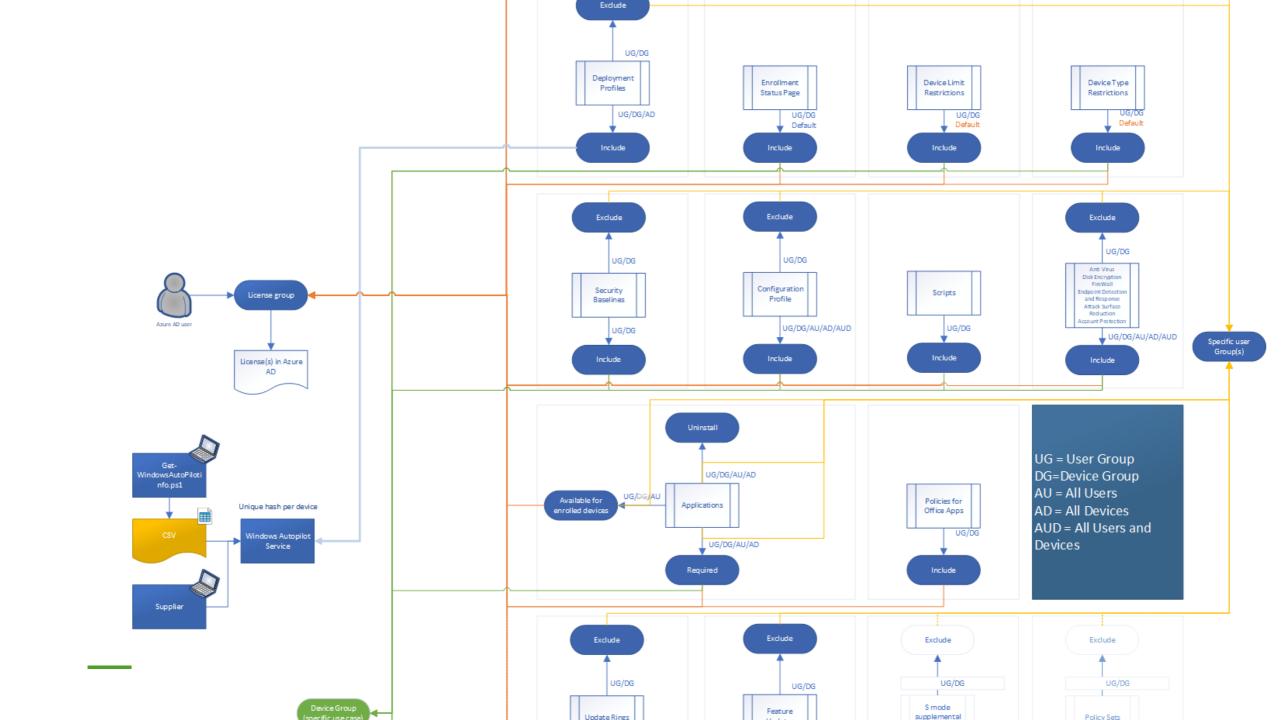
### **Group Nesting**

### (i) Important

We don't currently support:

- Adding groups to a group synced with on-premises Active Directory.
- Adding Security groups to Microsoft 365 groups.
- Adding Microsoft 365 groups to Security groups or other Microsoft 365 groups.
- Assigning apps to nested groups.
- Applying licenses to nested groups.
- · Adding distribution groups in nesting scenarios.







### Choices have consequences

 By choosing to assign to user groups only, you must deal with some disadvantages:

- Deployment profiles must target a device group, no other way
- Against Microsoft recommendations
- No way to distinct different machines for a single user
  - Wait a second, \*now\* we can ☺

# Demo

How I implement Microsoft Endpoint Manager



## Key takeaways

- Doing it different is not WRONG, there are multiple ways to implement MEM
  - <a href="https://www.itpromentor.com/devices-or-users-when-to-target-which-policy-type-in-microsoft-endpoint-manager-intune/">https://www.itpromentor.com/devices-or-users-when-to-target-which-policy-type-in-microsoft-endpoint-manager-intune/</a>
- Consistency is key!
- Understand how things work (f.e. the ESP and Required Apps)
  - <a href="https://techcommunity.microsoft.com/t5/intune-customer-success/selecting-required-apps-for-your-enrollment-status-page/ba-p/2200381">https://techcommunity.microsoft.com/t5/intune-customer-success/selecting-required-apps-for-your-enrollment-status-page/ba-p/2200381</a>
- I version all my Microsoft Endpoint Manager configuration
  - I24 W10 CP Google Chrome Configuration v1.0
  - I24 Windows 10 Compliance Policy v1.0
- Create Deployment Rings
  - Eat your own dogfood/Drink you own champagne
  - Use relevant business users
- Each choice has consequences
  - When applying to user groups for example, it's hard to make exceptions for certain devices (use test accounts)
- I consider my implementation successful when
  - The device configuration is consistent and simple to understand (and easily manageable)
  - Device configuration on a device is successful and there are no errors or conflicts