



Guide Description

The purpose of this guide is to provide a powershell runbook for implementing Intune. This guide is assuming you have the **M365 Business** License. It can apply to EMS licenses, but some features will not be covered such as Conditional Access and Windows Autopilot. After you run this powershell script you will have created:

- 1. A device compliance policy for:
 - a. iOS
 - b. Android
 - c. Windows
- 2. A device configuration policy for Windows Devices to have BitLocker
- 3. Terms and Conditions for when users enroll
- 4. Office 365 Business pushed out as a required App to window 10 devices and uninstall existing versions of proplus
- 5. Microsoft Authenticator pushed out as a required App for iOS and Android devices

Disclaimer

This guide is meant to provide best practices for policy creation and implementation of Intune. It is meant to be used as a template, but the policies defined will not be the same in all use cases. You must access to policies and configuration you will need for your customers environment and make changes as needed. As a best practice, test all configurations with a pilot group before moving to broad deployment across an entire organization



Pre-Flight Checklist



- a. Determine Platforms that you will support
 - i. IOS/Android
 - ii. MAC/Windows
- b. Have baseline security requirements complied that you want to implement
 - i. Min/Max OS versions
 - ii. Password Requirements
 - iii. Encryption Enabled
- c. Determine if there will be separate groups for separate security policies
 - i. Ex1. I have one group I want to assign IOS policies to and I have another I want to assign Android policies to.
 - ii. Ex2. I have more granular security policies I want to apply to on group over another.
 - iii. I encourage you to create a test group for piloting everything you are looking to implement in your organization
- d. Access if there are any apps beyond 365 that you want users to have access to
- e. Choose 3 pilot devices you want to enroll into Intune



Create Groups

Create a group for an Intune Pilot Create different groups if you want to separate out different people into different Intune Polices.

a. Scroll Down in the 365 Admin Portal and Go to the **Device Management Portal**

♡ Health	\sim	User mai	nageme	nt
Admin centers		Add, edit, and remove	e user accounts, an	d reset passw
Security				
🗘 Compliance				
🖵 Device Management		Add user	Edit user	\sim
 Azure Active Directory 	Device Management	Azure Active Direc	ctory	
🕼 Exchange				

b. Click on Groups and click New Group

Microsoft 365 Device Manageme	ent			-
«	Dashboard > Groups - All groups			
🖬 Dashboard	Groups - All groups wraj records! - Azure Active Directory		4	
E All services		«	+ Nevr_group 👌 Refresh 🔳	Columns
- 🛧 FAVORITES	🔐 All groups	^	New group I	
Device compliance	🗳 Deleted groups		Search groups	
Device enrollment	Settings		NAME	GROUP TYPE
Conditional Access	🖨 General		AD AAD DC Administrators	Security
💼 Security baselines	Expiration			Office
Levice configuration			AD OSEIS	onice
🖵 Devices	Activity		AD Adam2TestAgain	Office
🤜 Software updates	Access reviews		AD adamstest	Office
Client apps	Audit logs		AD AdminAgents	Security
🔓 Users 🏒	Troubleshooting + Support		AD ADSyncAdmins	Security
Groups	🗙 Troubleshoot		AD ADSyncAdmins	Security
	A			



c. Group Type can be 365 or security. You can add whatever users you would like for this group. This is my test group, so I am going to add my pilot user

Group type Office 365 Group name @ Test Group description @ Intune Pilot Group Membership type @ Assigned Selected members: Members @ NR Nick Ross nross@wrajrecords.com NR Nick Ross nross@wrajrecords.com))	Select members
Intune Pilot Group Membership type Assigned Members NR NR NR NR NR NR NR NR NR N	type 65 V name Ø escription Ø	Select member or invite an external user Inros Nick Ross Nick Ross Nick Ross Nick Ross Nick Ross Nick Ross
NR Nick Ross nross@wrajrecords.com	ership type 🛛	Selected members:
Là	>	NR Nick Ross nross@wrajrecords.com

d. Click Create when finished

Group * Group type Office 365 * Group name Test Group description Intune Pilot Group
* Group type Office 365 * Group name Test Group description Intune Pilot Group
Group type Office 365 Group name Test Group description Intune Pilot Group
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Test Group description Intune Pilot Group
Group description 🚯
Intune Pilot Group
* Membership type 🚯
Members 🚯
Assigned V



Running the Powershell Script



2. Copy and Paste the script from GitHub that I created. Here is the link





3. If you want to modify any of the settings for any of the policies, you can view their respective lines:





```
*******
1410
1411
           $JSON_iOS = @"
1412
               Joon_IOS = @
{
    "@odata.type": "microsoft.graph.iosCompliancePolicy",
    "description": "iOS Compliance Policy",
    "displayName": "iOS Compliance Policy",
    "ischeduledActionsForRule":[{"ruleName":"PasswordRequired","scheduledActionConfigurations":[{"actionType'
    "passcodeBlockSimple": true,
    "passcodeBlockSimple": true,
    "passcodeMinimumLength": 4,
    "passcodeMinimeOfTnactivityReforeLock": 15
1413
1414
1415
1416
1417
1418
1419
1420
1421
                "passcodeMinutesOfInactivityBeforeLock": 15,
                passcodePreviousPasscodeBlockCount": 8,
"passcodeMinimumCharacterSetCount": null,
"passcodeRequiredType": "numeric",
1422
1423
               "passcodeRequiredType": "
"passcodeRequired": true,
1424
1425
                "securityBlockJailbrokenDevices": true,
"deviceThreatProtectionEnabled": true,
1426
                "deviceThreatProtectionEnabled": true, ´ I
"deviceThreatProtectionRequiredSecurityLevel": "Low"
1427
1428
1429
                }
            "a
1430
1431
            1432
```



4. When you run the commands, you will be prompted for a User principal name. Enter the user principal name of a global administrator:



5. Next, enter the group you created in the beginning of this document that contains your pilot users:



6. You will see all the policies, apps, and Terms created. Once complete you will get a new commandline:





7. When you go back to the Device Admin portal, you will be able to see the policies, profile, apps, and terms.

Microsoft 365 Device Manag	ement		
	Cashboard > Device compliance	- Policies	
🔟 Dashboard	Device compliance - Pol	icies	
i≣ All services			nns 🔻 Filter 🚺 Refresh
- ★ FAVORITES	, Search (Ctrl+/)		
📕 Device compliance	 Overview 	One or more compliance p Threat Defense connector.	Click here to setup a Mobile Threat C
🌄 Device enrollment	Manage 🌙		
Conditional Access	Policies	POLICY NAME	↑↓ PLATFORM ↑↓ PC
🔓 Security baselines	Notifications	Android Compliance Policy	Android A
B Device configuration	Locations	iOS Compliance Policy	ios
Devices	Monitor	Compliance Policy	103 10
🔜 Software updates		Windows	Windows 10 W
Client apps	Device compliance	Windows 10 Compliance Polic	y Windows 10 W
🔓 Users	Devices without compliance		
- • • • •	Setting compliance		
Since and the second se	Policy compliance		



«	Dashboard > Client apps - Apps		
🖪 Dashboard	Client apps - Apps Microsoft Intune		
i∃ All services	«	+ Add C) Refresh T Filter	
🛨 🛨 FAVORITES	Search (Ctrl+/)		
🛃 Device compliance	1 Overview		
듉 Device enrollment	Manage	NAME [↑]	TYPE STATUS
Conditional Access	Apps	Microsoft Authenticator	iOS store app
🔓 Security baselines	App protection policies	Microsoft Authenticator-Android	Android store app
🛃 Device configuration	App configuration policies	Office 365 Business - Assigned	Office 365 ProPlus Suite (Window
🖵 Devices	弦 App selective wipe	Office Business	Office 365 ProPlus Suite (Window
🗔 Software updates	📲 iOS app provisioning profiles		
Client apps	Nait	Office Desktop Suite	Office 365 ProPlus Suite (Window



All services			-		
	, Search (Ctrl+/)	«	 Create 		
Device compliance	1 Overview	^	3 Satisfy stricter compliance require	ments and improve the end-us	er experience with the new AAD Terms of use feat
둸 Device enrollment	📣 Quick start		♀ Filter items		
Conditional Access	Manage	Ι.	NAME	ASSIGNED	LAST MODIFIED DATE
<table-cell-rows> Security baselines</table-cell-rows>	Apple enrollment		Wraj Company Terms	Yes	11/2/2018 1:59:38 PM
Levice configuration	Android enrollment		Customer Terms and Conditions	Yes	4/1/2019 12:13:28 PM
Toevices	Windows enrollment			5	
🔲 Software updates	Terms and conditions				
Client apps	Enrollment restrictions				
🗳 Users	Device categories				

Enroll Devices: Windows

a. On the Windows 10 Device, click Start and type Access Work or School

Recycle	Bin			
=	All Apps Documents Settings N	Web	More 🔻 Feedback	
ŵ	Best match			
0	Access work or school System settings	\rightarrow		
Į.	Settings		Access work or school	-
	Ease of Access keyboard settings	>	System settings	
	Ease of Access brightness setting	>		_
	の Ease of Access audio settings	>	□ [*] Open	
	* Ease of Access high contrast settings	>		
	Use Sticky Keys to press one key at a time for keyboard shortcuts	>		
	Use Toggle Keys to hear a tone when	>		



b. Click Connect

	Access work or school
Q	
	Get access to resources like email, apps, and the network. Connecting means your work or school might control some things on this device, such as which settings you can change. For specific info about this, ask them.
	+ Connect

c. Click Join this device to Azure Active Directory

change. For specif	ght control some the info about this, a	ail, apps, and the ı hings on this devic ısk them.	network. Connecting e, such as which set	means you tings you ca
Email address				
		2		
Alternate actions:				
These actions will full control over th	set up the device a is device.	s your organizatio	n's and give your or	ganization
These actions will full control over th Join this device to	set up the device a is device. Azure Active Direc	is your organizatio	n's and give your or	ganization



d. Sign-In with the Users Azure AD credentials

User name: nross@wrajrecords.com

User type: Administrator

Let's get you signed in Work or school account iomeone@example.com Which account should I use? Sign in with the username and password you use with Office 365 or other business services from Microsoft. Privacy statement Privacy statement **e. When prompted, click Join**Make sure this is your organization If you continue, system policies might be turned on or other changes might be made to your PC. Is this the right organization?

Cancel Join



f. You will get a success message when complete. If this is the first device the user is enrolling, you will be first given Terms and Conditions to accept

You're all set!
This device is connected to wraj records!.
When you're ready to use this new account, select the Start button, select your current account picture, and then select 'Switch account'. Sign in using your nross@wrajrecords.com email and password.
41
Done

g. Back in the Intune Portal, you can go to **Device Compliance>Policies>Click on your Windows Policy** (we created earlier in this document)

Micr	osoft 365 Device	Management				Ç ¹ ∰	?	nross@wrajrecoro wraj ri
		« Dashboar	d > Device compliar	nce - Policies				
<u> </u>	Dashboard	Device	compliance - F	Policies				
:≡/ -★	Windows Device compliance	- Device sta	itus					
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i i i i i i i i i i i i i i i i i i i	 Overview 	1		1 Data in this view is	live.			
	Manage			✓ Filter items				
	Propertie	25		DEVICE	↑J USER PRINCIPAI	L NAME ît	COMPLI	ANCE STATUS
	🗳 Assignme	ents		DESKTOP-MEO0NQ6	None		Not eva	aluated
	Monitor			DESKTOP-TRBCT6F	jsonnier@wra	jrecords.com	😢 Not	Compliant
* * *	Device st	atus		WindowsAuto	None		Not eva	aluated
	User stat	us						
	Per-settin	ng status						

h. You can click on **Device status** to see compliance status. Note, it can take some time before the evaluation will complete. In this case, I see the device I just joined as "Not Evaluated". We just must wait for that to complete.



Monitoring

I can come back in later to see that it is in error:

== Columns 🛛 👱 Export			
1 Data in this view is live.			
DEVICE	1 USER PRINCIPAL NAME	↑↓ DEPLOYMENT STATUS	↑↓ LAST STATUS UPDATE
DESKTOP-MEO0NQ6	None	Pending	
DESKTOP-TRBCT6F	jsonnier@wrajrecords.com	😵 Failed	1/10/19, 10:57 AM
WindowsAuto	nross@wrajrecords.com	🔶 \rm 🛛 Error	3/30/19, 5:20 PM
	Ν		

a. Click on this line item and the go to **Device Compliance** on the next page:

Dashboard > Device compliance -	Policies > Windows > Device status > WindowsAuto	
WindowsAuto		
, Search (Ctrl+/)	🤍 🗶 Retire 🍤 Wipe 🛅 Delete 🔒 Remote lock 🔇 Sync	e 🔎 Reset passcode 🛛 🙂 Restart 🗲
1 Overview	Device name WindowsAuto	Enrolled by User Nick Ross
Manage	Management name nross_Windows_3/30/2019_9:01 PM	Compliance Not Compliant
Properties	Ownership Corporate	Operating system Windows
Monitor	Serial number	Device model
🖡 Hardware	0000-0013-4890-0606-7785-1571-70	Virtual Machine
Discovered apps	G	3/30/2019, 5:20:18 PM
👃 Device compliance 🦰	See more	
L Device configuration		*
App configuration	Device actions status	
💼 Security baselines	ACTION STATUS	DATE/TIME
Managed Apps	No results	



b. Click on Windows as it is our policy

Dashboard > Device compliance - Policies > Windows > Device status > WindowsAuto - Device compliance

WindowsAuto - Device compliance

	*	✓ Export				
1 Overview						
Manage		POLICY	\uparrow_{\downarrow}	USER PRINCIPAL NAME	Ϋ́	STATE
Properties		Built-in Device Comp	liance Policy	nross@wrajrecords.com		📀 Compliant
Monitor		Windows	շիտ	nross@wrajrecords.com		Error
Hardware			\bigcirc			
Discovered apps						
Device compliance						

c. Here you can see why the device is out of compliance and take action steps to remediate. In this case it looks like we just need to finish setting up BitLocker to encrypt the drive:

Windows Volicy settings		
Export		
SETTING	STATE	↑↓ STATE DETAILS
Antispyware	< Compliant	
Number of non-alphanumeric characters in passw	📀 Compliant	
Antivirus	📀 Compliant	
Password expiration (days)	📀 Compliant	
Encryption of data storage on device.	Error	-2016281112 (Remediation failed
Minimum password length	📀 Compliant	""
Maximum minutes of inactivity before password is	Not applicable	
Password type	📀 Compliant	
Firewall	📀 Compliant	
Require BitLocker	Not applicable	



Enroll Devices: iOS and Android

iOS and Android device enrollment can be completed by downloading the Intune Company Portal app from the app store or google play store:



- a. Users will be walked through a wizard after they enter their Azure AD credentials
- b. For a detailed list of the entire user experience, you can follow this support guide from Microsoft:

<u>Intune</u>

Android

Pilot Testing and Remediation

During our Pilot we want to discover:

- Common FAQs
- Whether we need to tighten or loosen our policies
- End User Experience for Communications to Broad audience
- Common Troubleshooting Techniques for each platform

After this is complete, we want to create communications to our audience for enrollment:



- Why is this service important?
- What pain points will it help them solve?
- What can end users expect?
- What are the steps to get my device enrolled

Lastly, after we have this pushed out and a target date for deployment, we can go back into the Device Management Admin Center and begin to add our groups to our policies and profiles:

a. Go to Device Compliance and click on policy you want to add a group to:

Microsoft 365 Device Manag	ement Q
	Dashboard > Device compliance - Policies
🛄 Dashboard	Device compliance - Policies
i≘ All services	
FAVORITES Device compliance	One or more compliance policies for iOS and Android have an active Mobile Threat Defense connector. Click here to set and Android.
듉 Device enrollment	Manage
Conditional Access	Policies Search by name
늘 Security baselines	POLICY NAME TO PLATE TO POLICY TH
Device configuration	Locations Android Compliance Policy Android Android
Toevices	IOS iOS com
🜉 Software updates	Device compliance iOS Compliance olicy iOS iOS com
Client apps	Devices without compliance Windows Windows Windows
🔓 Users	Setting compliance
📲 Groups	Policy compliance

b. Go to **Assignments** and select your groups that you want to apply the policy to. You can do the same with **Device Profiles** by going to the **Device Configuration** section

«	Dashboard > Device compliance - Policies > Windows - Assignments			
료 Dashboard	Windows - Assignments Device compliance policy			
E All services		Save X Discard V Evaluate		
- 🛨 FAVORITES	S Search (Ctrl+/)	Floare AA pierra A Francisco		
Device compliance	(i) Overview	Include Exclude		
👼 Device enrollment	Manage	Assign to		
Conditional Access	III Properties	Selected Groups		
🍓 Security baselines	🛃 Assignments	Select groups to include		
	Monitor			
Devices	Device status	No assignments		
Software updates	User status			
Client apps	Per-setting status			



Microsoft 365 Device Management Q						
×	Dashboard > Device configuration -	Profiles				
🗔 Dashboard	Device configuration - Pro	files				
i∃ All services		"		T ette		
— 🛨 FAVORITES —————	,⊃ Search (Ctrl+/)		Create profile == Columns	▼ Filter	C Refresh	
🔒 Device compliance 🔺	(i) Overview	Â	\wp Search by name			
5 Device enrollment	Manage		PROFILE NAME	PLATF ↑↓	PROFILE TYP	
Conditional Access	Profiles		ATP	Windows	Windows D	
🔓 Security baselines	PowerShell scripts		BitLocker	Windows	Custom	
Levice configuration	🚝 eSIM cellular profiles (Preview)		BitLocker Configuration	Windows	Custom	
🖵 Devices	Monitor	47	BitLocker Profile	Windows	Administrat	
Client apps	Assignment status		Device policy for Windows 10	Windows	Device rest	

Conclusion

I hope this article provided you some targeted guidance on creating a runbook for Intune. Any feedback to improve your experience would be greatly appreciated. I would also like to hear if there is more content that you would like to see in this guide. Any feedback can be sent to my email below:

Msp4msps@tminus365.com

