Drive Letter Mapping – Intune – On Premises File Server

If your infrastructure is still in HYBRID mode and you have started to use AUTOPILOT deployment for new hardware which are enrolled to Intune MDM as Azure AD like this..

CPC-noor-4HXT3O	Yes	Windows	10.0.22000.978	Azure AD joined	Ram	Microsoft Intune	Yes
WINDOWS11	Yes	Windows	10.0.22000.918	Azure AD joined	Ram	Microsoft Intune	Yes
WS-W10	Yes	Windows	10.0.19044.1706	Hybrid Azure AD joinec	Ram	System Center Configu	N/A

As you can see from above screen shot some of the devices are Azure AD Joined and a few are Hybrid Azure AD Joined through System Center Configuration Manager (AKA MEMCM 2207).

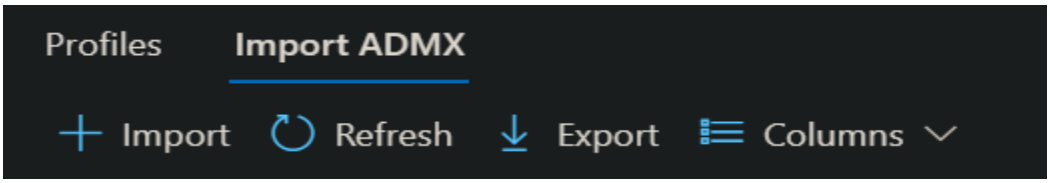
I want to see, if we can map on premises file share for Azure AD Joined / Intune enrolled devices – reason we are doing this exercise is when you start AUTOPILOT deployment all the devices will be Azure AD Joined and Microsoft Intune. So, users will not be able to connect to Network share from these devices until we have this solution in place.

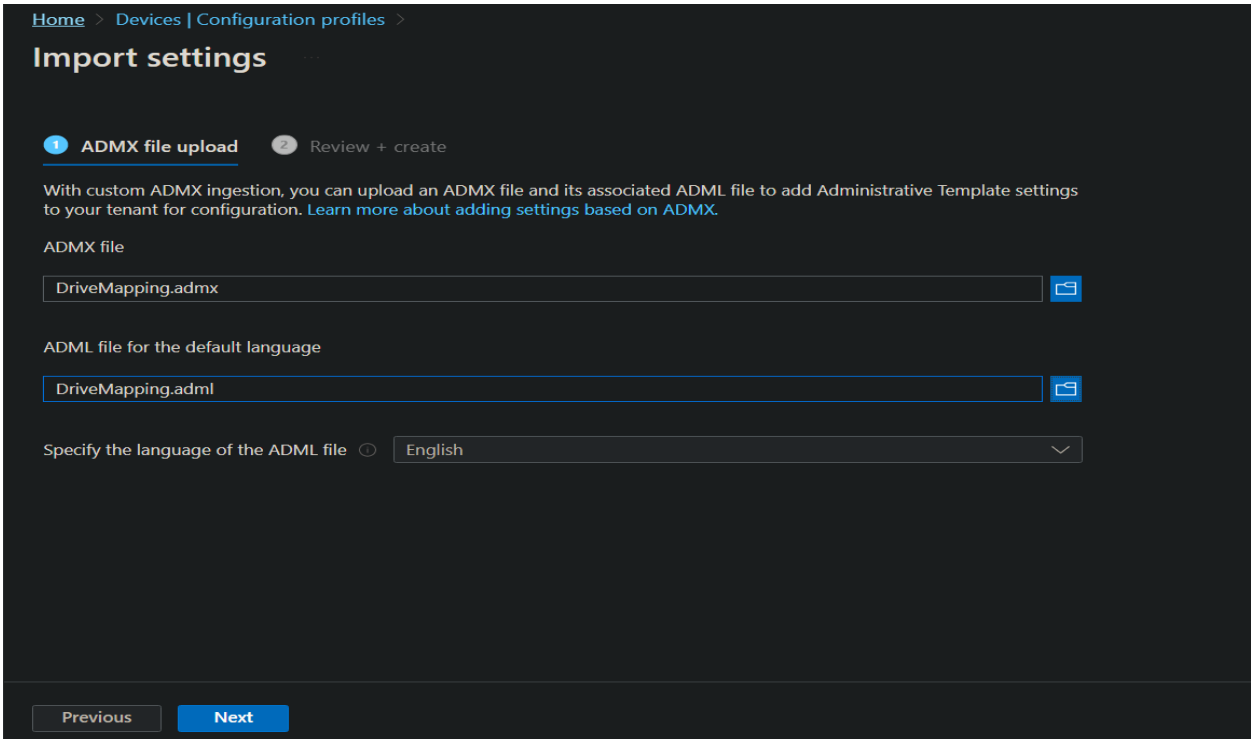
I have logged into Azure Portal, Intune Portal and O365 Admin Portal for this exercise. This is what we will do. I am sharing 2 ways to achieve the task of mapping network drives.

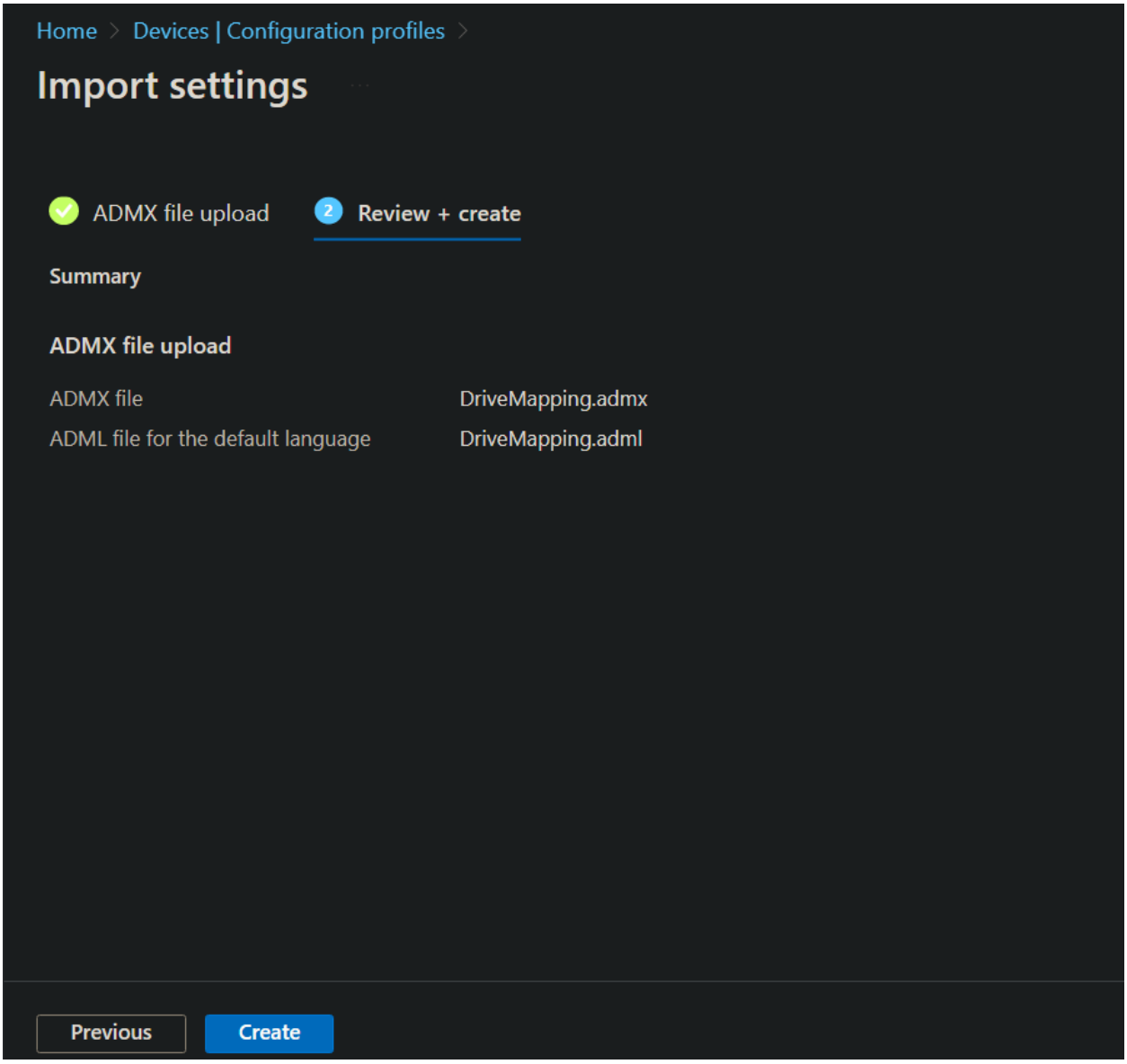
METHOD ONE:

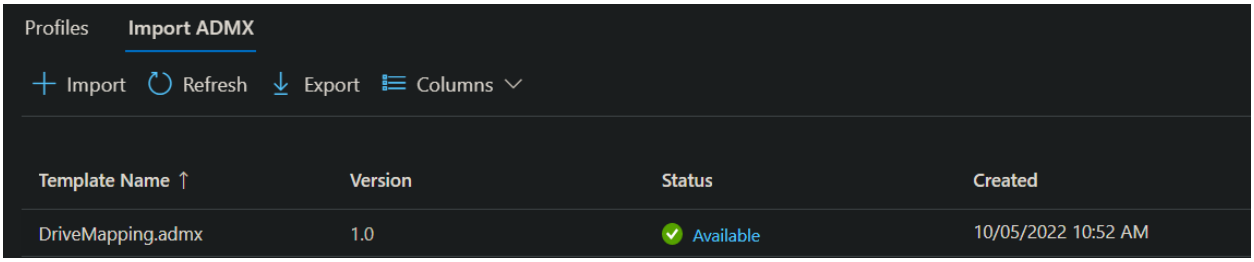
1. Import ADMX files

Go to Intune Portal -> Devices -> Import ADMX



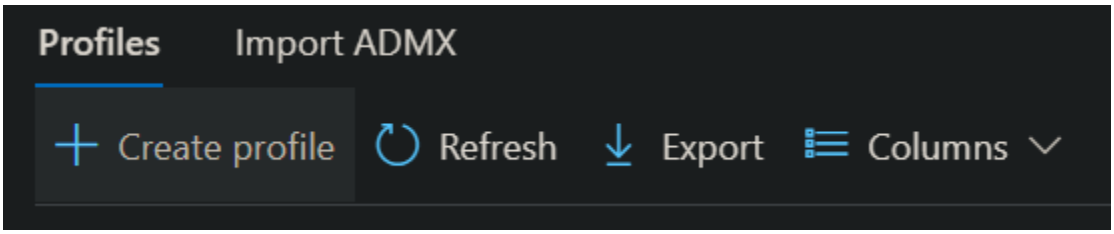






2. Create device configuration profile

Now we will create device configuration profile for mapping network drives that are located on premises.



Home > Devices | Configuration profiles >

Create profile

Administrative Templates

1 Basics | 2 Configuration settings | 3 Scope tags | 4 Assignments | 5 Review + create

Name * On Premise Network Share

Description This profile will be used to map network drives that are currently located On Premises

Create a profile

Platform

Windows 10 and later

Profile type

Templates

Templates contain groups of settings, organized by functionality. Use a template when you don't want to build policies manually or want to configure devices to access corporate networks, such as configuring WiFi or VPN. Learn more

Search

Template name
Administrative templates
Custom
Delivery optimization
Device firmware configuration interface
Device restrictions
Device restrictions (Windows 10 Team)
Domain join
Edition upgrade and mode switch
Email
Endpoint protection
Identity protection
Imported Administrative templates (Preview)
Kiosk

Create

These are the network shares; I want to map for all users/devices

WD3 (\\DC) (X:)	Network Drive	931 GB	116 GB
WD2 (\\DC) (Y:)	Network Drive	1.81 TB	490 GB
WD1 (\\DC) (Z:)	Network Drive	4.54 TB	1.99 TB

Drive X

\Network Drive Mappings

Maps drive X: to a network share (UNC path).

Please enable this policy and fill in a remote UNC path. As example \\remoteserver\Share

Disable this policy if you want to remove the drive mapping.

Setting type: User

Supported on: At least Windows Server 2008 R2 or Windows 7

(●) Enabled ( ) Disabled ( ) Not configured

Drive X Remote Path:

\\dc\wd3

OK

Drive Y

\Network Drive Mappings

Maps drive Y: to a network share (UNC path).

Please enable this policy and fill in a remote UNC path. As example \\remoteserver\Share

Disable this policy if you want to remove the drive mapping.

Setting type: User

Supported on: At least Windows Server 2008 R2 or Windows 7

(●) Enabled ( ) Disabled ( ) Not configured

Drive Y Remote Path:

\\dc\wd2

OK

Drive Z

\Network Drive Mappings

Maps drive Z: to a network share (UNC path).

Please enable this policy and fill in a remote UNC path. As example \\remoteserver\Share

Disable this policy if you want to remove the drive mapping.

Setting type: User

Supported on: At least Windows Server 2008 R2 or Windows 7

(●) Enabled ( ) Disabled ( ) Not configured

Drive Z Remote Path:

\\dc\wd1

OK

Home > Devices | Configuration profiles >

Create profile

Administrative Templates

Drive G	Not configured	User	\Network Drive Mappings
Drive H	Not configured	User	\Network Drive Mappings
Drive I	Not configured	User	\Network Drive Mappings
Drive J	Not configured	User	\Network Drive Mappings
Drive K	Not configured	User	\Network Drive Mappings
Drive L	Not configured	User	\Network Drive Mappings
Drive M	Not configured	User	\Network Drive Mappings
Drive N	Not configured	User	\Network Drive Mappings
Drive O	Not configured	User	\Network Drive Mappings
Drive P	Not configured	User	\Network Drive Mappings
Drive Q	Not configured	User	\Network Drive Mappings
Drive R	Not configured	User	\Network Drive Mappings
Drive S	Not configured	User	\Network Drive Mappings
Drive T	Not configured	User	\Network Drive Mappings
Drive U	Not configured	User	\Network Drive Mappings
Drive V	Not configured	User	\Network Drive Mappings
Drive W	Not configured	User	\Network Drive Mappings
Drive X	Enabled	User	\Network Drive Mappings
Drive Y	Enabled	User	\Network Drive Mappings
Drive Z	Enabled	User	\Network Drive Mappings

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Create profile

Administrative Templates

Basics | Configuration settings | 3 Scope tags | 4 Assignments | 5 Review + create

Scope tags

Scope tags
Default •••

Home > Devices | Configuration profiles >

Create profile

Administrative Templates

Basics | Configuration settings | Scope tags | 4 Assignments | 5 Review + create

Included groups

Add groups | Add all users | Add all devices

Groups	Group Members	Filter	Filter mode		
All devices		None	None	Edit filter	Remove

Excluded groups

When excluding groups, you cannot mix user and device groups across include and exclude. Click here to learn more about excluding groups.

Add groups

Groups	Group Members
No groups selected	

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Administrative Templates

Basics | Configuration settings | Scope tags | Assignments | 5 Review + create

Summary

Basics

Name	On Premise Network Share
Description	This profile will be used to map network drives that are currently located On Premises

Configuration settings

Drive X	Enabled
Drive Y	Enabled
Drive Z	Enabled

Scope tags

Default

Assignments

Included groups

Group	Group Members	Filter	Filter
All devices		None	None

Previous | Create

Profiles | Import ADMX

Create profile | Refresh | Export | Columns

Search | Add filter

Profile name ↑	Platform	Profile type	Last modified
Intune data collection policy	Windows 10 and later	Windows health monitoring	09/26/2022 01:37 PM
On Premise Network Share NEW	Windows 10 and later	Administrative templates	10/05/2022 11:20 AM
W365 O365 Microsoft Edge app sett	Windows 10 and later	Administrative templates	09/26/2022 11:10 AM
W365 O365 OneDrive Known Folder	Windows 10 and later	Administrative templates	09/26/2022 11:10 AM

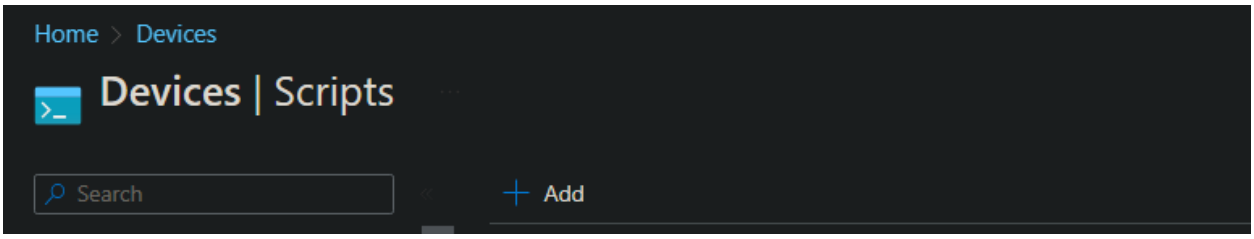
Now let me login to Windows 365 Cloud PC which is Azure AD & Intune Joined and see if the network drives are mapped.

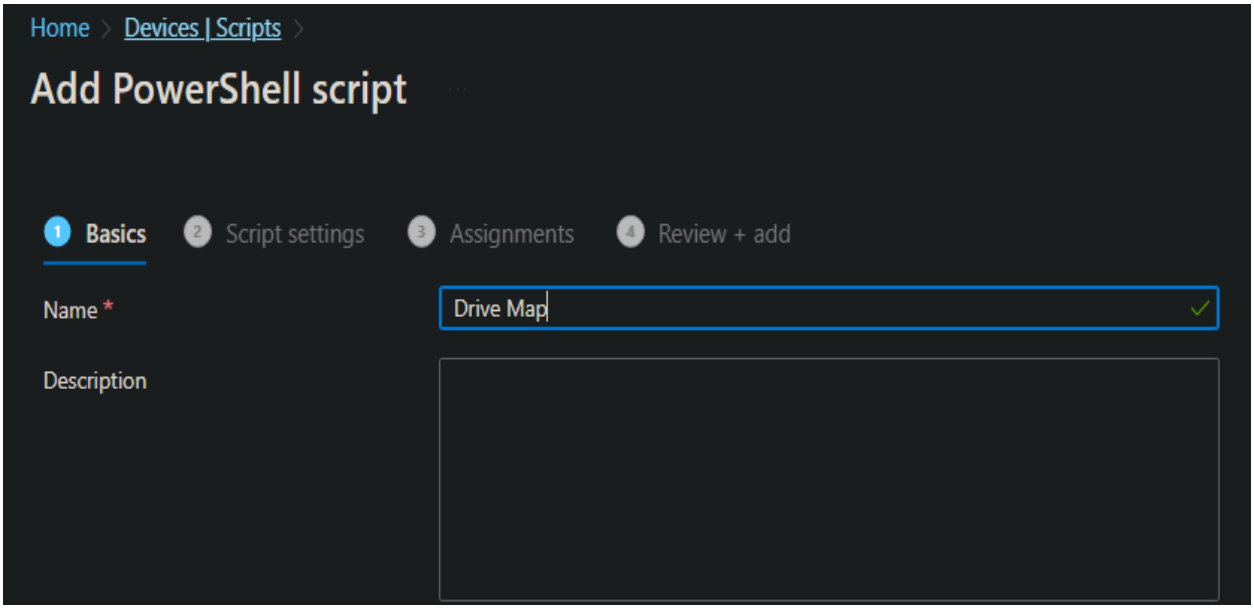
Network locations (4)

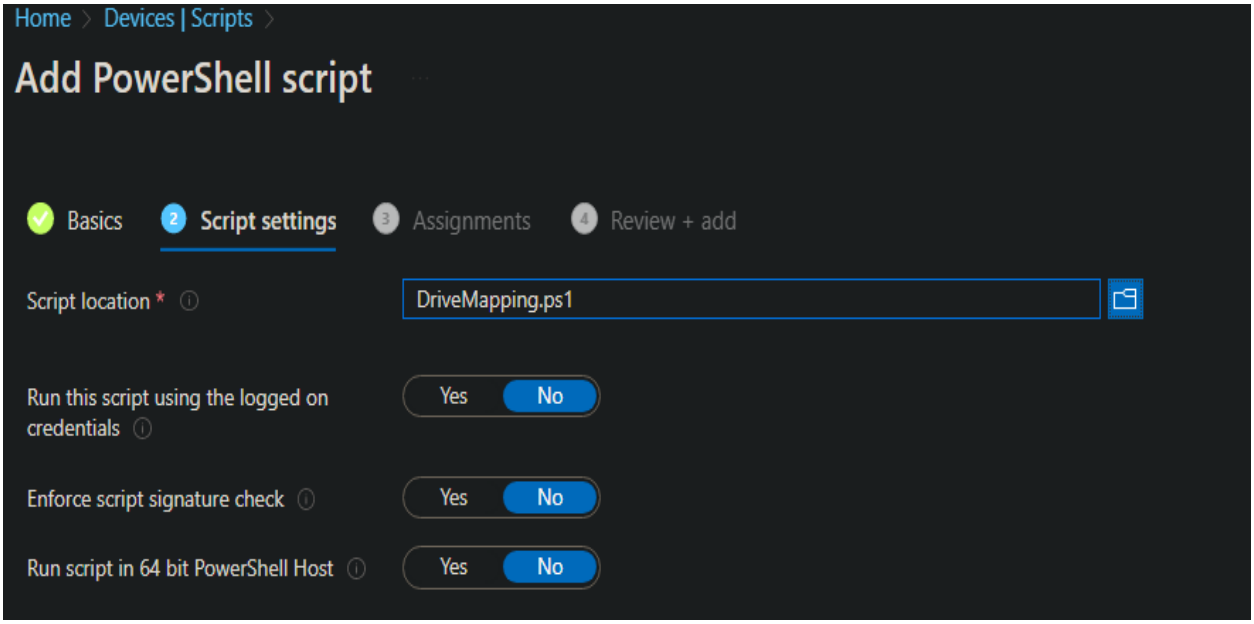
WD3 (\\DC) (X:)	Network Drive	931 GB	116 GB
WD2 (\\DC) (Y:)	Network Drive	1.81 TB	490 GB
WD1 (\\DC) (Z:)	Network Drive	4.54 TB	1.99 TB

METHOD TWO:

You can also try using a script to map network drives. Details below:







Home > Devices | Scripts >

Add PowerShell script

Basics | Script settings | 3 Assignments | 4 Review + add

Included groups

Add groups | Add all users | Add all devices

Groups	Group Members	
All devices		Remove

Excluded groups

When excluding groups, you cannot mix user and device groups across include and exclude. Click here to learn more about excluding groups.

Add groups

Groups	Group Members
No groups selected	

Previous | Next

Home > Devices | Scripts >

Add PowerShell script

Basics | Script settings | Assignments | 4 Review + add

Summary

Basics

Name	Drive Map
Description	--

Script settings

PowerShell script	DriveMapping.ps1
Run this script using the logged on credentials	No
Enforce script signature check	No
Run script in 64 bit PowerShell Host	No

Assignments

Included groups

Group	Group Members
All devices	

Excluded groups

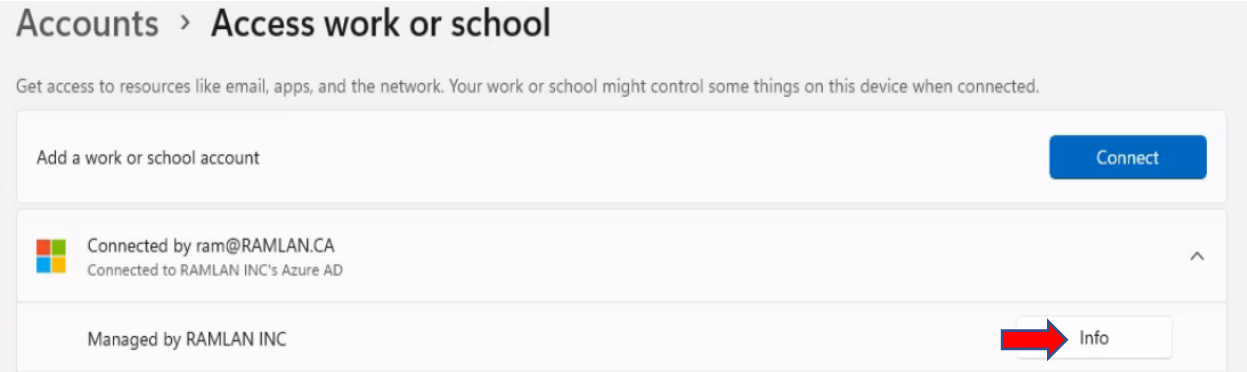
Group	Group Members
No results.	

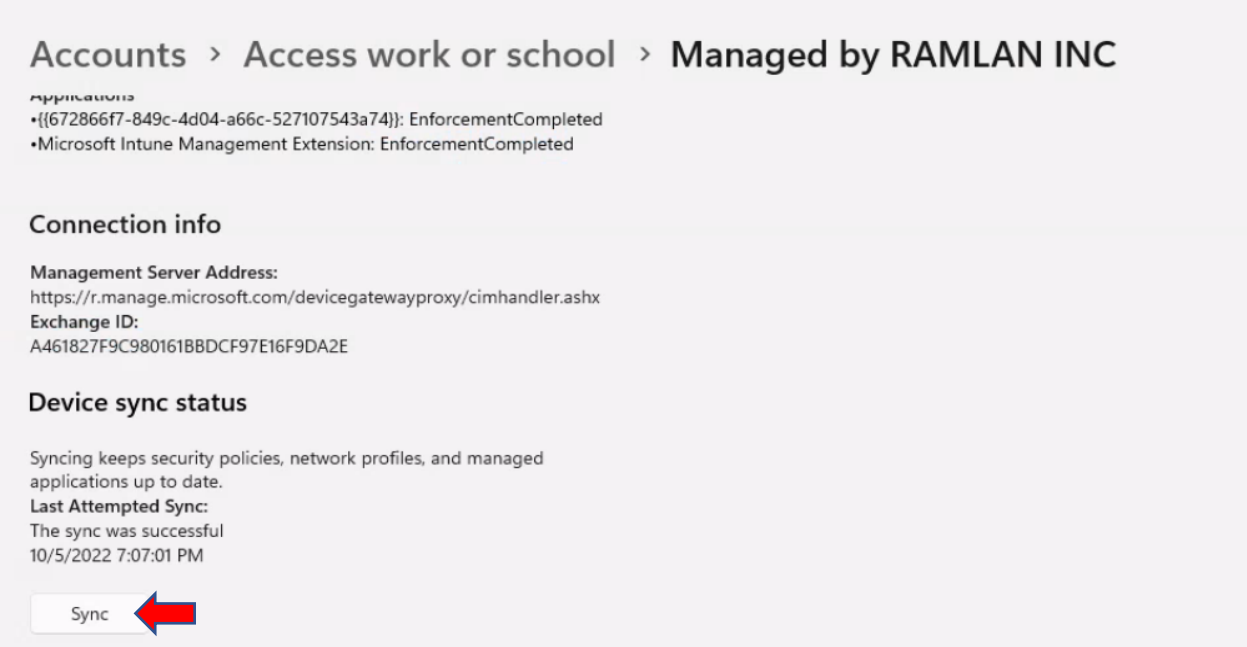
Previous | Add

+ Add

Script name	Platform	Script type	Assigned	Last modified
Drive Map	Windows	PowerShell script	Yes	10/05/22, 3:05 PM

Login to a device that is Azure AD and Intune enrolled – Settings – Accounts – Access Work or School –





Wait for the sync to be successful. After that we will login to Windows 365 Cloud PC which is Azure AD & Intune Joined and see, if the network drives are mapped.

Network locations (4)

WD3 (\\DC) (X:)	Network Drive	931 GB	116 GB
WD2 (\\DC) (Y:)	Network Drive	1.81 TB	490 GB
WD1 (\\DC) (Z:)	Network Drive	4.54 TB	1.99 TB

This concludes the process of mapping network drives for Azure AD Devies.

Thanks

Ram
9th Oct 2022

ADMX file download - https://call4cloud.nl/2021/03/willy-wonka-and-the-drive-letter-factory/

Drive Mapping Script - https://sysmansquad.com/2020/12/16/mapping-network-drives-on-intune-devices/

Misc Reference - https://www.2azure.nl/2019/09/07/create-a-drive-mapping-using-intune-on-azure-ad-joined-devices-manual/