

Scope of this deck

Scope

Provide guidance on how you can **roll out OneDrive KFM**:

Deploy OneDrive client and log installation

Define OneDrive policy to enable KFM

Check compliance on managed devices and remediate KFM settings

Report on OneDrive deployment and configuration

Out of Scope

The following topics are **outside** the focus of this presentation:

Setting up core infrastructure (AD, DNS, AD Connect, SCCM)

Third-party tools and/or custom applications integration

Agenda

What we'll cover







2. Plan for Scenarios



3. Deployment



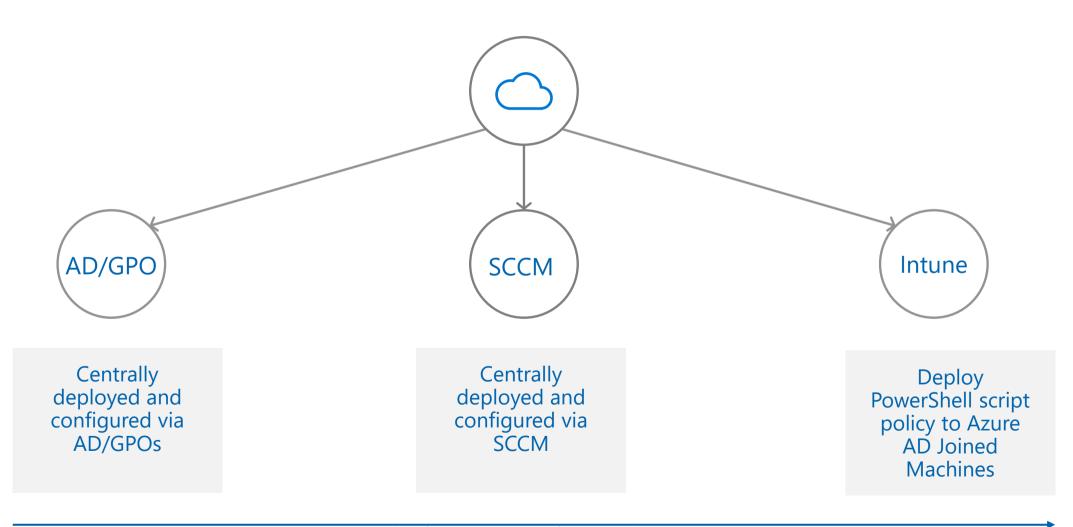
4. Report and monitor



Keep your files protected and backed up using KFM

Ways to Deploy

Choose the simplest option based on your requirements



Plan for common challenges

Limited Network Bandwidth

Assess the number of users and computers per user to which you'll deploy the sync client.

Assess the available bandwidth and network conditions.

Measure the network utilization of the sync client for a pilot group.

When you deploy, control the sync throughput and limit sync upload rate.

Roll out gradually and monitor for issues

OneNote and/or PST in known folders

Proactively report which users have OneNote files or .PST files in their known folders, OR Reactively engage with those users if it fails for them to move those files elsewhere, e.g. <u>OneNote</u> OneNote migration with KFM – <u>In development</u>

Require other known folders like Favorites, Videos, etc.

For other known folders like Favorites and Videos, please use <u>Folder Redirection with Offline Files</u>. Keep in mind KFM won't work if you have previously used Folder Redirection on Desktop, Pictures, or Documents.

Plan for common challenges continued

Large Mac Device population

Upvote the following <u>user voice regarding Mac + KFM</u>.

Limited storage on machines

Deploy using <u>Files on Demand</u>.

VDI environment

Only persistent desktop environments are supported at this time

Windows Virtual Desktop provides new Windows 10 Multi-User (EVD) OS with Office, OneDrive Files On-Demand (per machine), Microsoft Teams and more – <u>in development</u>.



Deploy KFM using Active Directory + GPOs Option 1

OneDrive KFM GPO

Use Group Policy Management console

Add OneDrive ADM files to central store

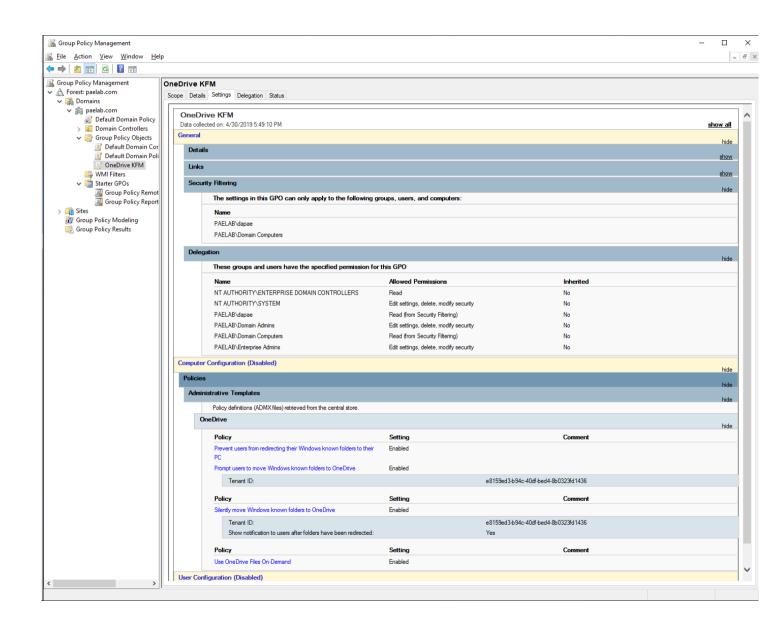
Configure OneDrive GPO settings

Specify subset of users or computers for OneDrive KFM GPOs using security filtering

Link GPO to a new or existing OU

Evaluate the deployment and make policy adjustments

Add next wave of objects to security group used in GPO security filtering



Key GPOs when first deploying KFM

Registry Key	Description	Enabling this policy
KFMOptInWithWizard	Prompt users to move Windows known folders to OneDrive	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"KFMOptIn WithWizard"="Tenant ID"
KFMBlockOptOut	Prevent users from redirecting their Windows known folders to their PC. Enable to disable the "Stop protecting" button.	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"KFMBlock OptOut"="dword:00000001"
KFMSilentOptIn	Silently move Windows known folders to OneDrive. Use this setting to redirect your users' Documents, Pictures, and Desktop folders to OneDrive without any user interaction.	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"KFMSilent OptIn"="Tenant ID"
KFMSilentOptInWithNotification	Notify user after successful folder redirection.	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"KFMSilent OptInWithNotification" = "dword:00000001"
AutomaticUploadBandwidthPercentage	Limit the sync client upload rate to a percentage of throughput. Recommend setting when enabling KFMSilentOptIn or KFMOptInWithWizardsilently.	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"Automati cUploadBandwidthPercentage"="dword:00000032" Hexadecimal 32 = Decimal 50 or 50% of throughput
FilesOnDemandEnabled (optional)	Use OneDrive Files On-Demand. This setting lets you control whether OneDrive Files On-Demand is enabled for your organization.	[HKLM\SOFTWARE\Policies\Microsoft\OneDrive]"FilesOnDe mandEnabled"="dword:00000001"

Visit https://docs.microsoft.com/en-us/onedrive/use-group-policy for entire list of OneDrive sync client settings



Monitor with PowerShell

Script will check:

Know Folder Move (KFM) eligibility (for whatever device it was run on)

Payload details (number of items and size of content within known folders)

KFM status (have the known folders been moved to OneDrive)

KFM GPO state (what GPOs have been set)

https://aka.ms/kfmStatus

```
alland WIN10X64 - Notepad
    Edit Format View Help
True
       Device is KFM GPO eligible
True
       Desktop is in OneDrive
True
       Documents is in OneDrive
       Pictures is in OneDrive
False
      | KFM Opt In Wizard Set
True
       KFM Silent Opt In Set
True
       KFM Silent With Notification Set
        KFM Block Opt In Set
False
False
        KFM Block Opt Out Set
19.043.0304.0007 | OneDrive Sync client version
```



Deploy KFM using SCCM Option 2



OneDrive users licensed and <u>sites</u> <u>provisioned</u>

Sync Client Version 18.111.0603.0004 or later

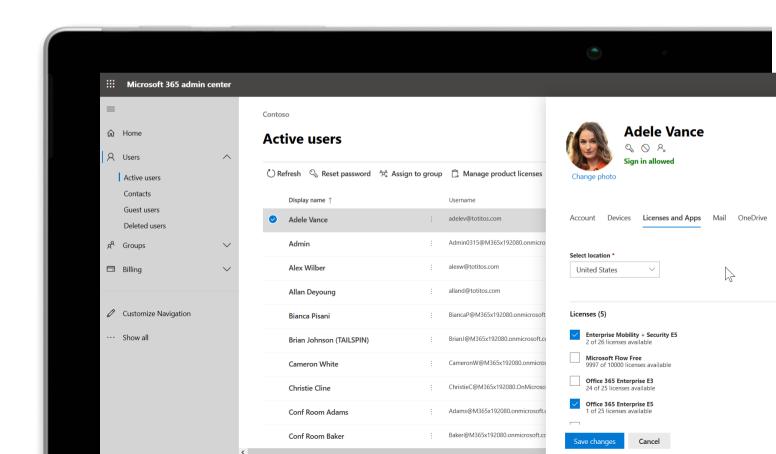
O365 Admin Portal Access

System Center Configuration Manager (current) is setup and ready to deploy apps and configurations

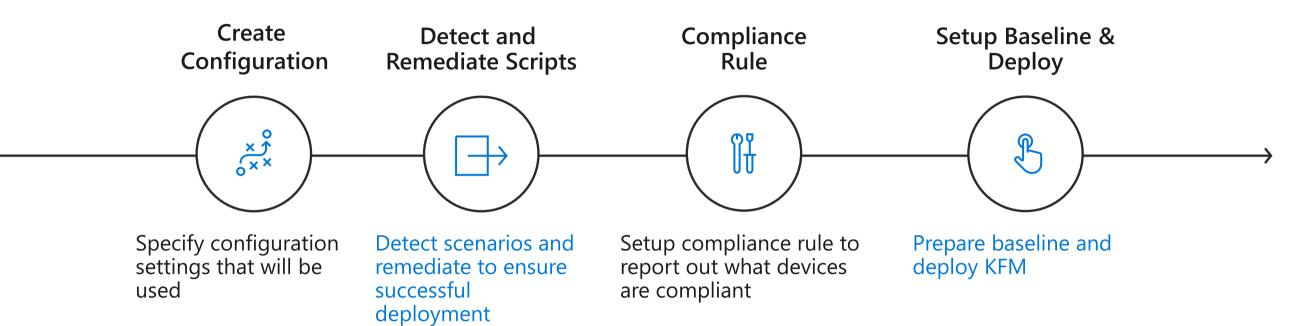
PowerShell scripts can run on Windows devices

Network team included in bandwidth conversations

SSCM Build 1902 introduces a OneDrive for Business profile to setup a compliance policy



Deploy KFM via SCCM



https://docs.microsoft.com/OneDrive



Create a Configuration Item (CI)

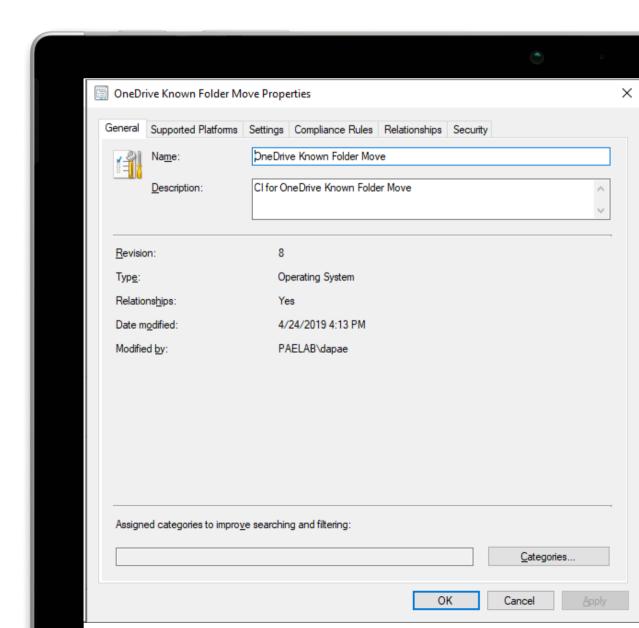
CI contains detection, remediation and compliance rules. For OneDrive:

Specify the Windows OS version

Script to detect the OneDrive registry key

Script a remediation steps to add OneDrive KFM registry keys/values

Use a compliance rule to remediate the OneDrive KFM policy





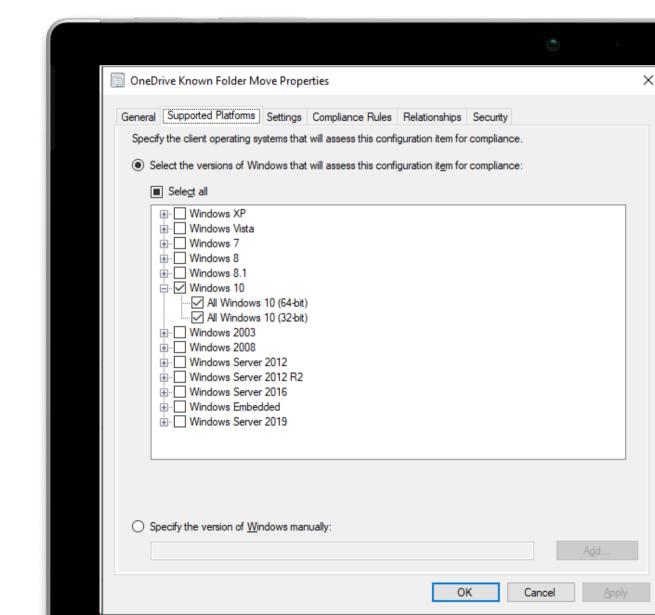
Supported Platforms

Known Folder Move works with:

Windows 7

Windows 8/8.1

Windows 10





Settings – Discovery Script

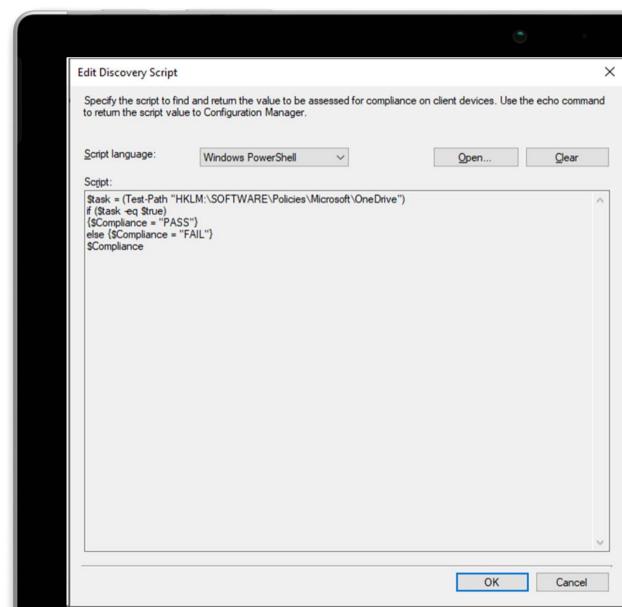
Test for OneDrive registry key

Assign PASS if key exists

Else send FAIL value to compliance rule

Simple to extend to evaluate more

```
$task = (Test-Path
"HKLM:\SOFTWARE\Policies\Microsoft\OneDrive")
If($task -eq $true){
$Compliance = "PASS"
}
Else{
$Compliance = "FAIL"
}
$Compliance
```





Settings – Remediation Script

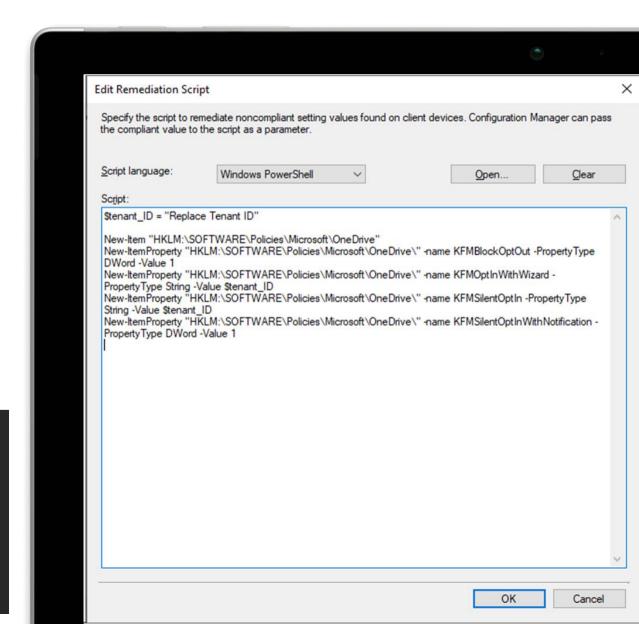
Script exactly which OneDrive KFM policies to deploy

Enforce users to keep known folders directed to OneDrive

Prompt users to move Windows known folders

Silently move known folders and notify when redirection is successful

```
$tenant_ID = "Replace Tenant ID"
New-Item "HKLM:\SOFTWARE\Policies\Microsoft\OneDrive"
New-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\OneDrive\" -name
KFMBlockOptOut -PropertyType DWord -Value 1
New-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\OneDrive\" -name
KFMOptInWithWizard -PropertyType String -Value $tenant_ID
New-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\OneDrive\" -name
KFMSilentOptIn -PropertyType String -Value $tenant_ID
New-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\OneDrive\" -name
KFMSilentOptinWithNotification -PropertyType DWord -Value 1
```





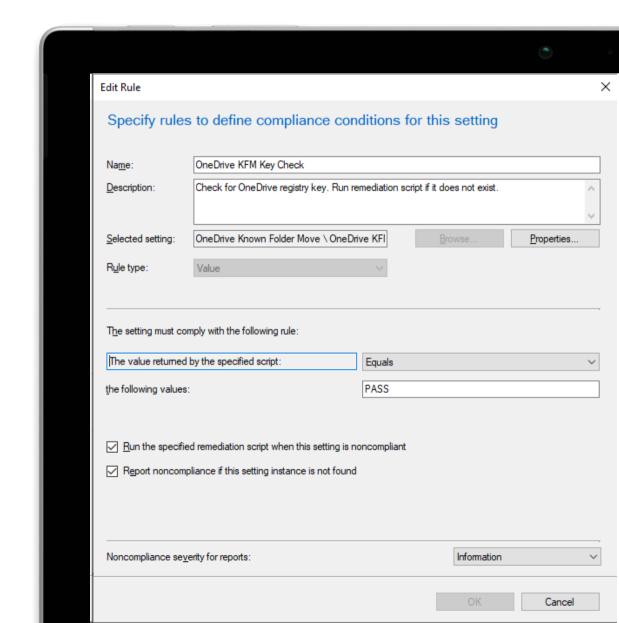
Detection value passed to rule

PASS = no remediation script

FAIL = remediation script adds OneDrive registry key/values to noncompliant device

Must check "Run the specified remediation script..."

Enable Report noncompliance and set sev reports

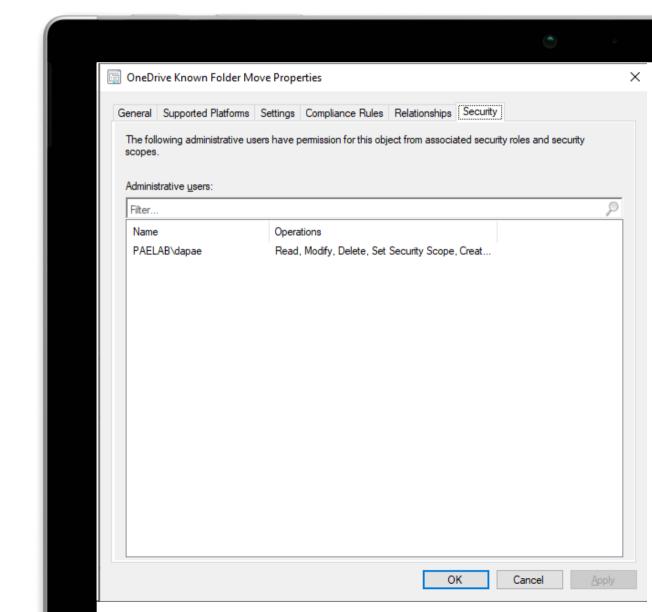




Security content:

This is set using the CI wizard and defines users who can manage a CI.

The administrative users are defined when SCCM is installed/configured.



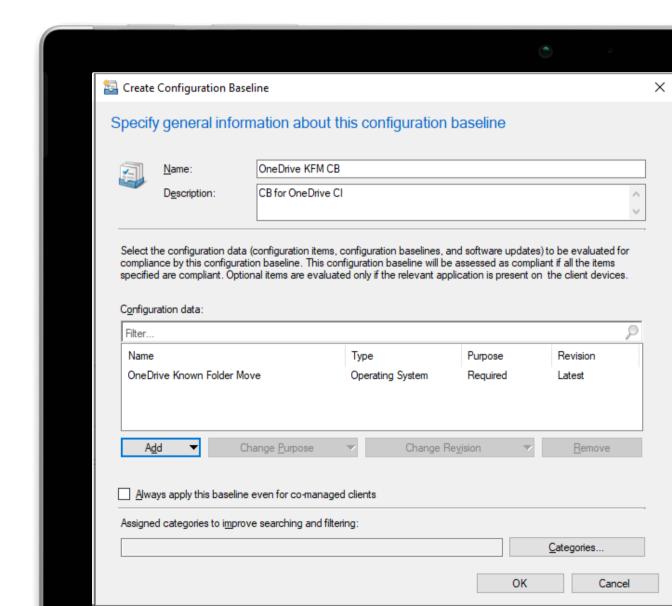


Configuration Baseline (CB)

Needed to deploy to your device collection

Create a new CB

Add the OneDrive KFM CI





Deploy to Device Collection

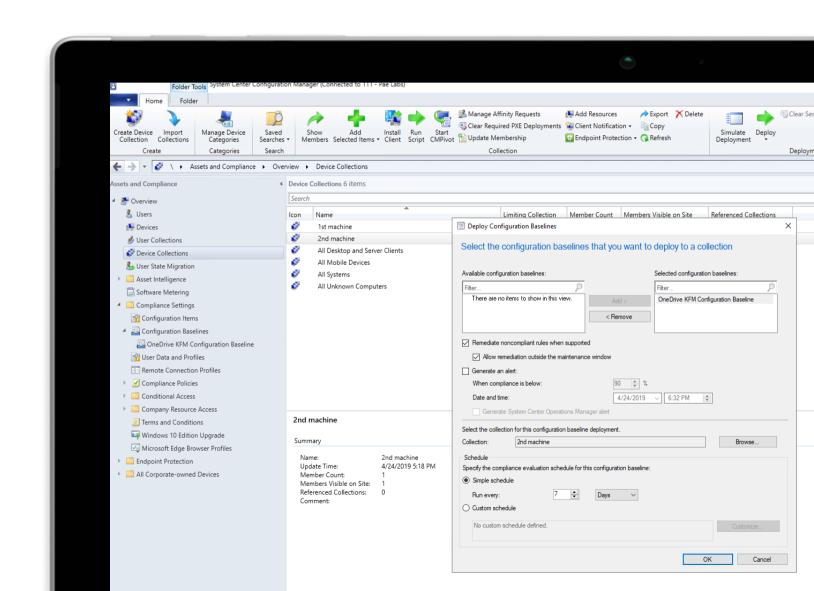
Start with a lab collection

Measure the network impact and success of the deployment

Review deployment outcomes

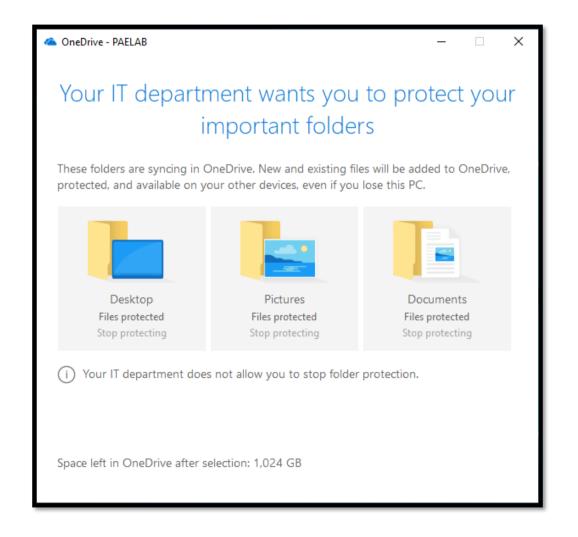
Fine-tune the CI scripts if you need to adjust KFM policies

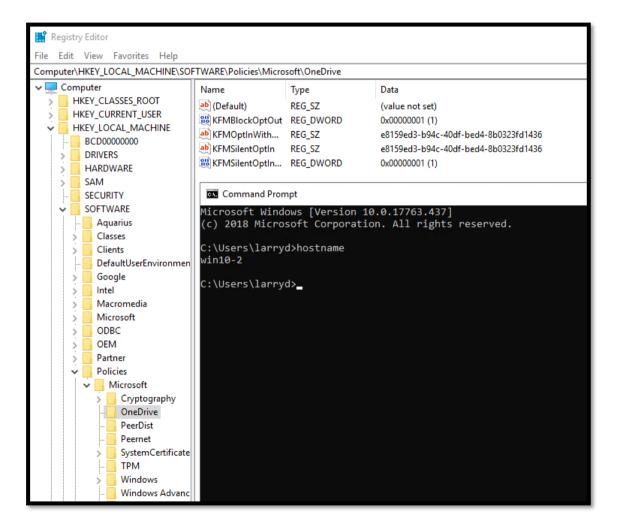
Repeat for first wave of devices (IT early adopters)





OneDrive KM Policy Deployed



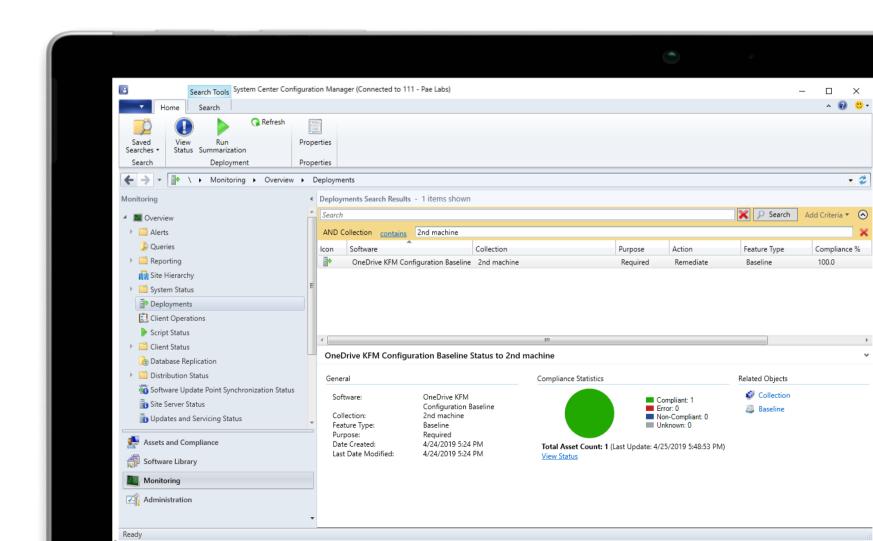




Monitor with SCCM

SSCM will report which devices are compliant/non-compliant

CI scripts can be extended to log to local file or write to Windows event logs





Monitor with PowerShell

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https://aka.ms/kfmStatus

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    Edit Format View Help
True
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       KFM Silent With Notification Set
        KFM Block Opt In Set
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False
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19.043.0304.0007 | OneDrive Sync client version
```



Deploy KFM using Intune Option 3



KFM using Intune Requirements

- Licensing:
 - EMS E3/E5
 - M365 E3/E5
 - https://docs.microsoft.com/en-us/intune/licenses
- Pre-requisites
 - Must be joined or registered to Azure AD*
 - Auto-enrollment configured
 - Windows 10 version 1607 or later
 - Intune extension agent is installed

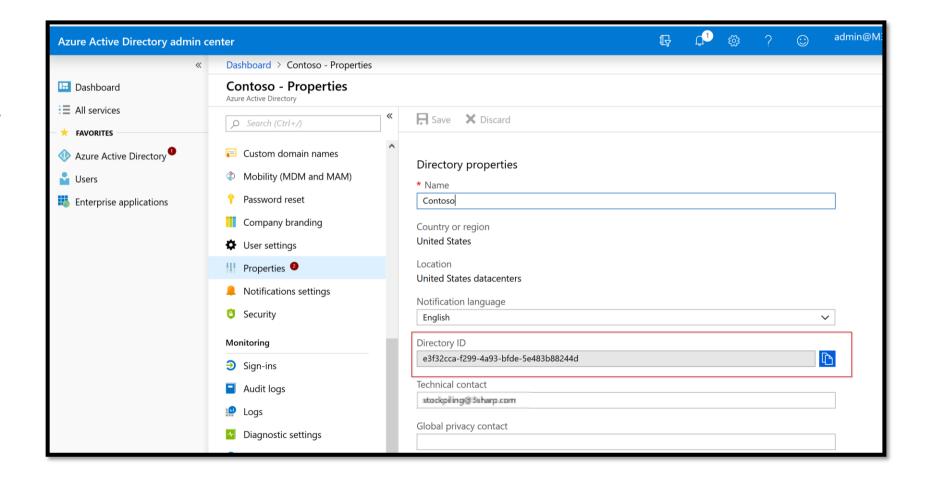


Copy your Azure Tenant ID

Navigate to Azure AD admin center:

https://aad.portal.azure.com

Copy the "Directory Id" value



Update \$TenantID with the tenant ID you copied earlier:

```
$registryPath = 'HKLM:\SOFTWARE\Policies\Microsoft\OneDrive'##Path to HKLM keys
If(!(Test-Path $registryPath))
{New-Item -Path $registryPath -Force}
#Enable silent account configuration
New-ItemProperty -Path $registryPath -Name 'SilentAccountConfig' -Value '1' -PropertyType DWORD -Force | Out-Null
#Enable files on demand
New-ItemProperty -Path $registryPath -Name 'FilesOnDemandEnabled' -Value '1' -PropertyType DWORD -Force | Out-Null
#Prevent users from moving their Windows known folders to OneDrive
New-ItemProperty -Path $registryPath -Name 'KFMBlockOptIn' -Value '1' -PropertyType DWORD -Force | Out-Null
#Silently move Windows known folders to OneDrive
New-ItemProperty -Path $registryPath -Name 'KFMSilentOptIn' -Value $TenantID -PropertyType String -Force | Out-Null
#Setting this value to 1 displays a notification after successful redirection
New-ItemProperty -Path $registryPath -Name 'KFMSilentOptInWithNotification' -Value '0' -PropertyType DWORD -Force | Out-Null
#Prevent users from redirecting their Windows known folders to their PC
New-ItemProperty -Path $registryPath -Name 'KFMBlockOptOut' -Value '1' -PropertyType DWORD -Force | Out-Null
```



Deploy your script



Browse to:

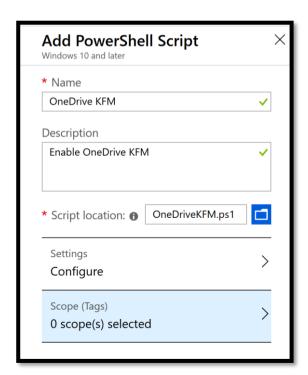
https://devicemanagement.po rtal.azure.com and click on

Device Configuration



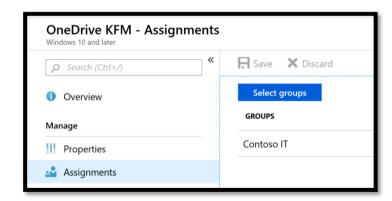


Add your powershell script. Settings and Scope can be left as default.





Assign your script to a pilot group to test out the behavior.





Monitor and troubleshoot

Monitor run status

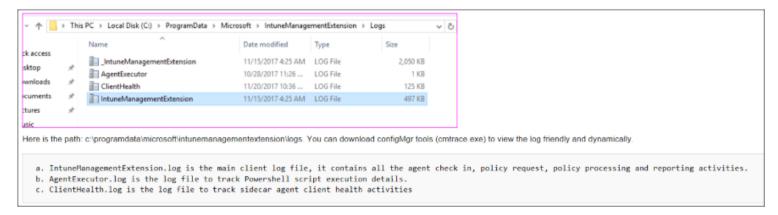
You can monitor the run status of PowerShell scripts for users and devices in the Azure portal.

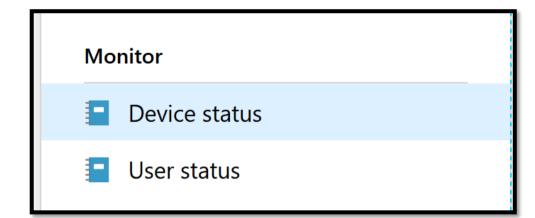
In PowerShell scripts, select the script to monitor, choose Monitor, and then choose one of the following reports:

- Device status
- User status

Troubleshoot scripts

Agent logs on the client machine are typically in \ProgramData\Microsoft\IntuneManagementExtension\Logs \. You can use \(\frac{CMTrace.exe}{CMTrace.exe} \) to view these log files.







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