Readme IntuneApp

See: https://github.com/ITAutomator/IntuneApp

Overview

```
-------------------------------------------------------------------
AppsMenu.ps1
Installs and publishes apps using either Intune or manual methods.

About Apps
- Intune enabled (Win32) apps are a package of files that install a product on an e
- Typically, apps are pulled from the Winget or Choco online repositories.
- Apps can also be custom scripts.
- Most Apps only require an icon (graphic) file and a settings file to indicate the
-------------------------------------------------------------------
AppsMenu.ps1 Main menu
-------------------------------------------------------------------
L - List / Create apps
    Shows the current apps. Creates app based on winget template
I - Install / Uninstall apps
    Installs (or Uninstalls or Detects) apps on the current machine
C - Copy apps (to a USB key)
    Copies apps to a portable folder for later install
P - Publish / Unpublish apps
    Publishes apps to an existing org.  Create new org.
-------------------------------------------------------------------
Select an Action
[X] Exit  [L] List  [I] Install  [C] Copy  [P] Publish  [?] Help (default is "X"):
```

Use this to easily publish an application to Intune.

Features

Apps are packaged in portable folders designed for
- One-time installs (e.g. via \Downloads folder)
- Bulk installs (by copying many App folders and launching a single installer)
- Intune installs (using the native Intune system and endpoint agent service)

Apps are added to the Company Portal so people can self-install without admin rights.
Apps can be made mandatory or optional but always controlled by Group membership.
Apps can be created easily using
- Both Winget or Chocolatey catalogs
- MSI installer
- Custom .ps1 scripts
- Apps built by copying sample apps

Main Menu

Run [Apps]\Packaged**AppsMenu_Launcher.cmd** to load the main menu.
Do not run as admin.

```
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```

List / Create Apps (L)

CreateApp.ps1

Shows the current packaged apps.

Creates an app package (if it exists in winget)

```
Result: OK: 38 Packages
Choice:
[X] Exit  [L] List apps  [O] Open apps folder  [B] Browse Winget for app ids  [C] Create a new app
```

App creation is beyond the scope of this document.

However, WinGet apps are fairly easy to create if you follow the prompts.

Each app's settings are controlled by a .CSV file within the app folder.

Install / Uninstall apps (I)

AppsInstall.ps1

install app on the current machine.

Do not run as local administrator, it will be take care of during the installation.

The AppGroup entries are based on a .CSV which bundles apps together for convenience.

```
Choices for 7Zip

I Install.ps1          Installs the app
U Uninstall.ps1        Uninstalls the app
D Detection.ps1        Detects if the app is already installed
R Requirements.ps1     Detects if the machine fulfills the requirements for installing the app
X Exit

Choice?
[I] Install  [U] Uninstall  [D] Detection  [R] Requirements  [X] Exit  [?] Help (default is "I"):
```
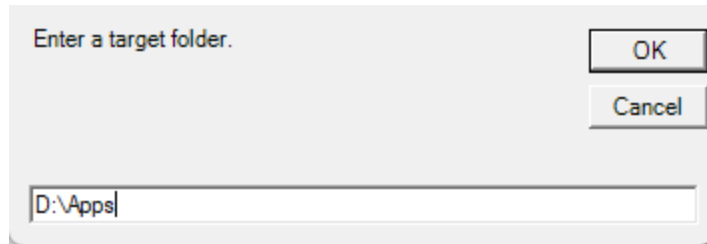
Copy apps (to a USB key) (C)

AppsCopy.ps1

Copies apps to a portable folder for later install.

Publish / Unpublish apps (P)

AppsPublish.ps1

To publish your apps to an org. Do not run as local administrator.


```
AppsPublish.ps1 Publish menu
-----------------------------------------------------------------------------
C - Check local apps prior to publication
    Checks local apps for changes / updates hash (recommended for Publish option
P - Publish apps
    Publishes apps to an og
O - Prep a new Org for publishing apps
    Creates an entry in AppsPublish_Orgs.csv
M - Install / upgrade modules
    Installs the PowerShell modules (required for Publish option)
-----------------------------------------------------------------------------
```

Check local apps prior to publication (C)

This makes sure the hash values for the current apps (in the local folder) are up to date. The hashes are important because they are checked against the online hash to see if any package changes have been made.

- The check process is run automatically prior to publishing
- Unmatched hashes will signal that an update is required.

Publish apps (P)

Use this to select an org and publish apps.

- Publishing means uploading packaged apps to Intune.
- Depending on Group memberships, this might also mean the *immediate push* of the apps to client devices.
- Prior to publishing
  - Make sure you use the Prep option (O) menu below
  - Powershell Modules. To publish from a particular machine, you must install the required modules. Use the Install module (M) menu first.
- Admin Credentials
  - When publishing, you will need enter admin credentials to Endpoint Manager.
  - If your org specifies a target group to publish, you will need to enter AZad admin credentials also.
  - successive runs will not ask for creds.
- When ready, choose the apps to publish from the list. The list will show which apps already exist in the org and whether an update is needed.
- Groups
  - Each published app will auto-create an Entra group which is tied to the app.
  - Each published app may also be a member of the general Entra group for Windows users (depending on the *PublishToOrgGroup* setting within the app CSV).
  - The Entra group memberships controls who gets the app

Prep a new Org for publishing apps (O)
Creates an entry in AppsPublish_Orgs.csv
- Creates the 2 groups mentioned in the Org Setup steps (above)
- Creates the **IntuneApp Publisher** Entra App

Install / upgrade modules (M)
AppModules.ps1

```
Modules:
 1] IntuneWin32App
 2] Microsoft.Graph
 3] MicrosoftTeams
 4] ExchangeOnlineManagement
------------------------------
Which module? (blank to exit):
What do you want to do.
[X] Exit this module  [R] Relaunch as Admin  [C] Check  [U] Uninstall  [I] Install
```

This will make sure your machine has up to date module versions installed.
- If in doubt, it is best to use the *Check* feature to make sure each module is up to date.
- While modules can be installed as the user (non admin), it's better to install them as admin so they all users of the machine will see the correct version.
- The basic steps are
- Check (as user) - it will let you know if there's a user-level or an admin-level module installed.
- If update is required: Press R - Relaunch as Admin then U – Uninstall then I – Install
- Do this for each module. But Intune publishing only needs *IntuneWin32App* and *Microsoft.Graph* modules.

Other Intune Apps (Non IntuneApp Apps)

This section covers apps that would not be installed with the IntuneApp system.
These apps are easily (and better) installed natively by Intune.
They are mentioned here because they are commonly needed.

Microsoft Store App: Company Portal

Overview
Company Portal is a Windows app that
- Shows users all available apps and what has been installed
- Allows users to install apps at a time convenient to them
- Allows the installation to happen in system context or user context (as packaged) without the user needing admin rights.
Here's how to add the company portal app to everyone.

Steps

Go to the Windows App List link
Add > **Microsoft Store app (new)** > **Select**
Search for **Company Portal** *(UWP)*
Leave all defaults
Upload icon (logo) from here: CompanyPortalIcon.png link or from the store link
Assign to: *Required > Add All users*

Microsoft 365 Apps (MS Office)

Overview
Outlook, Excel, Word, PowerPoint, Teams, etc do not require packaging. There is a built-in Endpoint Manager App for *Microsoft 365 Apps*

Steps

Intune Admin > Apps > Windows ([link](#)*)*
> Add > Microsoft 365 Apps > Windows 10 and later
Choose all defaults except:
Company Portal featured app: **Yes** *> Next*

Default file format: **Office Open XML Format** *(.docx/.xlsx/.pptx)*
Update Channel: **Monthly Enterprise**
Shared Computer Activation: **No**
(Yes means it won't count against your 5, but it will require more frequent check-ins via password)

Install background service for Microsoft Search in Bing: **No**
(Yes means it installs a background service that helps determine whether a Microsoft Search in Bing extension for Google Chrome is installed on the device)
Languages: **EN-US**

> Next
Install as Required: for all Users (Note: this is safe to do) (or same user groups as above)

Technical Details

Log Files

Look in *C:\IntuneApp* for debug files
Look in \Utils for tools

Internal dependencies

This script publishes a Win32 App (intunewin) [link](#)
Uses Microsoft Graph modules (and others) that are auto loaded at runtime
This script auto-loads this github module (IntuneWin32App [link](#)) by NickolajA
Which auto-loads this Microsoft module (Microsoft Win32 Content Prep Tool [link](#))

Intune Tracing

CMTrace.exe
Use the Configuration Manager Trace Log Tool to view log files.
C:\ProgramData\Microsoft\IntuneManagementExtension\Logs
AgentExecutor.log
IntuneManagementExtension.log

IntuneApp files

Package File	Description	Notes

intune_settings.csv	App Name and version	Later versions will automatically supersede (uninstall) prior versions
intune_install.ps1	Silent installation script	0,1707=Success 3010=Soft Reboot 1641=Hard Reboot 1618=Retry
intune_uninstall.ps1	Silent uninstall script	
intune_requirements.ps1	Reports if your app applies to this user/system. Apps that fail the requirement rule will display as *Device Status: Not Applicable* in Endpoint Manager (and will not be installed)	Script must output string "OK" for requirements to pass. Run this script using the logged on credentials: Yes, No Look for this integer eq 0 See link. No access to other package files. Must be a standalone script.
intune_detection.ps1	Detects if your app is installed. Only Apps that are 'not detected' will be installed. Will run as the machine or User depending on the package type.	When the script exit code is 0 and STDOUT contains any data, the app is detected. See link No access to other package files. Must be a standalone script.
intune_icon.png	Icon that's displayed in Endpoint Manager and Company Portal	