

Create Win32 App Objects in Intune using Powershell App Deployment Toolkit(PSADT)

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Scope of this document.

This document is intended for audience who are responsible for creating Win32 App Objects in Intune using Powershell App Deployment Toolkit (PSADT).

About PowerShell App Deployment Toolkit (PSADT)

The Powershell App Deployment Toolkit (PSADT) is a framework for deploying software packages that provides a set of functions, variables, and other resources to simplify the Application Installation process.

Prep Work

Navigate to: <\\usracipn516\EUCPackageSources\\_SCJ-PSADT Template> and make a local copy of these files on your test machine. Every Application should only contain the following items as shown in the picture below.

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PSADT Files & Folder Structure:

* **AppDeployToolkit:** This folder consists of various other files which contains the core functions, scripts, Modules and variables used by the deployment script.
* **Files:** This is the place where we’re going to store our source files for the applications we’re going to deploy.
* **SupportFiles:** This is the place where we’re going to store any additional source files like images, icons etc for the applications we’re going to deploy. This folder is completely optional.
* **Deploy-Application.exe:** The Executable that can drive the installation of the Application.
* **Deploy-Application.exe.Config:** It is a configuration file used for customizing various settings (Logging Settings, User Notification Settings, Behavior settings, Application-specific settings) for the deployment script.
* **Deploy-Application.Ps1:** The main deployment script that orchestrates the Application installation process. This is the only file where we update all our installation and Uninstallation command lines.

If you would like to review the full PSADT kit that’s not been touched, you can Download the latest toolkit from here: <https://psappdeploytoolkit.com/> and copy the toolkit folder to customize for your needs.

Scripting/Packaging an application using PSADT:

For each app you will need a COPY of the TEMPLATE folder. For demonstration purposes we will be packaging “Cherwell Client 10.5” Application.

|  |  |
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| **Step No.** | **Instructions** |
| Step 1: | Create a Temp Folder on your Test Machine.  A picture containing text, font, line, number  Description automatically generated |
| Step 2: | Copy the PSADT files from Template folder to C:\Temp\Cherwell Client 10.5  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 3: | Next you will need to download your content files (source files) and place them in the ‘Files’ Directory.  A screenshot of a computer  Description automatically generated with low confidence |
| Step 4: | Start editing the script (Deploy-Application.ps1) to match the criteria of the application we’re trying to deploy.  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 5: | First, open up the DeployApplication.ps1 and scroll down to the “Variable Declaration” section (Marked in yellow below) where we’re going to populate all the details of the application we’re going to deploy. Lets fill this out, here is an example  A screenshot of a computer  Description automatically generated with medium confidence |
| **\*\*Tip\*\*** | You don’t need to worry about having in depth PowerShell (although some helps) with this script you simply only need to remember a few things. Firstly, there are three phases of installation in the script:   1. Pre-Installation – where you would place any code you want to execute BEFORE the app installs 2. Installation – the actual app install logic goes in this section. 3. Post Installation – where you would place any post actions such as copying files or registry entries or even cleanup activities.   The same logic applies in the Uninstallation section. |
| Step 7: | Scroll down to the Installation section and write your script that handles the Application installation  A picture containing text, screenshot, font, web page  Description automatically generated  I’ve blurred out the rest to draw your eyes to the correct section |
| **\*\*Tip\*\*** | Navigate to: <https://allnewandimproved.psappdeploytoolkit.com/functions/> to learn more about the “Execute-MSI” cmdlet. |
| Step 8: | Scroll down to the Post Installation section and write your script that handles the Post-install activities:  A screenshot of a computer program  Description automatically generated with low confidence |
| Step 9: | Scroll down to Uninstallation section and write your script that handles the Application Uninstallation  A picture containing text, screenshot, font, web page  Description automatically generated |
| Step 10: | Save your Script and test the Application installation and Uninstallation on a test machine.   * **Install Command Line:** Powershell.exe -ExecutionPolicy Bypass -File "C:\Temp\Cherwell Client 10.5\Deploy-Application.ps1" * **Uninstall Command Line:** Powershell.exe -ExecutionPolicy Bypass -File "C:\Temp\Cherwell Client 10.5\Deploy-Application.ps1" -Deploymenttype Uninstall |

Intune Win32 Application Creation:

|  |  |
| --- | --- |
| **Step No.** | **Instructions** |
| Step 1: | Download “Intunewinapputil.exe” from <https://github.com/microsoft/Microsoft-Win32-Content-Prep-Tool> |
| Step 2: | Copy the Intunewinapputil.exe file to C:\Temp folder  A screenshot of a computer  Description automatically generated with low confidence |
| Step 3: | Create a Folder “Intune Upload” in C:\Temp. We will stage the Final “” file that will be uploaded to Intune.  A screenshot of a computer  Description automatically generated with low confidence |
| Step 4: | Open Cmd as administrator and run "C:\Temp\IntuneWinAppUtil.exe"  A picture containing text, screenshot, font  Description automatically generated |
| Step 5: | Enter the source folder, Setup file, output folder as shown below. |
| Step 6: | Wait for the conversion to complete    A screenshot of a computer program  Description automatically generated with medium confidence |
| Step 7: | Copy the newly generated, "Deploy-Application.intunewin" file from "C:\Temp\Intune Upload" to the package folder to "\\usracipn516\EUCPackageSources\Intune Packages\Cherwell Client 10.5".  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 8: | Open Microsoft endpoint manager admin center and navigate to Apps 🡪Windows & Click “Add” on top to create a new intune application  Graphical user interface, text, application, emailDescription automatically generated |
| Step 9: | Select Windows app (Win32) from the drop down for type of application.  Graphical user interface, text, application, emailDescription automatically generated |
| Step 10: | Select the “Deploy-Application.intunewin” file. Click on the “select app package file”  Graphical user interface, text, applicationDescription automatically generated  A screenshot of a computer  Description automatically generated  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 11: | Edit the App information details according to the application and set the logo and Click “Next”  A screenshot of a computer  Description automatically generated |
| Step 12: | Set the install and uninstall command details and device restart behavior in Program tab as shown and Click “Next”   * **Install Command Line:** Powershell.exe -ExecutionPolicy Bypass -File "Deploy-Application.ps1" * **Uninstall Command Line:** Powershell.exe -ExecutionPolicy Bypass -File "Deploy-Application.ps1" -Deploymenttype Uninstall   A screenshot of a computer  Description automatically generated |
| Step 13: | Set the requirement details for the application as shown and Click “Next”  A screenshot of a computer  Description automatically generated |
| Step 14: | Set the rules format to “Manually configure detection rules” and click on “Add” ButtonA screenshot of a computer  Description automatically generated with medium confidence |
| Step 15: | Configure the detection of the Application as per your choice and Click “Next”  A screenshot of a computer  Description automatically generated  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 16: | Any dependencies for the application has to be set in Dependencies tab and Click “Next”  Graphical user interface, text, applicationDescription automatically generated |
| Step 17: | Any app superseding this app can be set in Supersedence tab and Click “Next”  Graphical user interface, text, application, emailDescription automatically generated |
| Step 18: | Click “Next” on the Scope Tags |
| Step 19: | Assign the app to a test group for deployment in assignments tab and click “Next” |
| Step 20: | Final review and create the application using the Review+Create tab.  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 21: | Wait for the Application to create/upload and test your Application from Company Portal. |
| Step 22: | Once it is uploaded, the application is visible under apps  A screenshot of a computer  Description automatically generated with medium confidence |
| Step 23: | As displayed in Company Portal  A screenshot of a computer  Description automatically generated |
| Step 24: | After installing from Company portal  A screenshot of a computer  Description automatically generated with medium confidence |

Troubleshooting & Logs

For troubleshooting Intune client-side events, you can refer below 3 logs:

Location of logs C:\ProgramData\Microsoft\IntuneManagementExtension\Logs

* IntuneManagementExtension.log: Tracks the Intune Management extension component events
* AgentExecuter.log: Tracks any PowerShell execution events
* ClientHealth.log: Tracks client-health related events

For troubleshooting PSADT Install/Uninstall:

* Location of PSADT Install/Uninstall Logs: C:\Windows\Logs\Software

Additional References

<https://psappdeploytoolkit.com/> : The Main Webpage for Powershell App deployment Toolkit

<https://raymondzaagsma.github.io/psadt_cheatsheet/>: This website will provide you information about most frequently used Command lines in Deploy-Application.ps1

<https://allnewandimproved.psappdeploytoolkit.com/functions/>: This website will provide you the real-world examples of using functions that are available in PSADT.