

Wm:smug
~~MISCUG~~

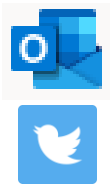
PowerShell App Deployment Toolkit

CHRIS THOMAS

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CTHOMAS@INGHAMISD.ORG

@AUTOMATEMYSTUFF



Ingham Intermediate
School District
A Regional Educational Service Agency

Wm:smug

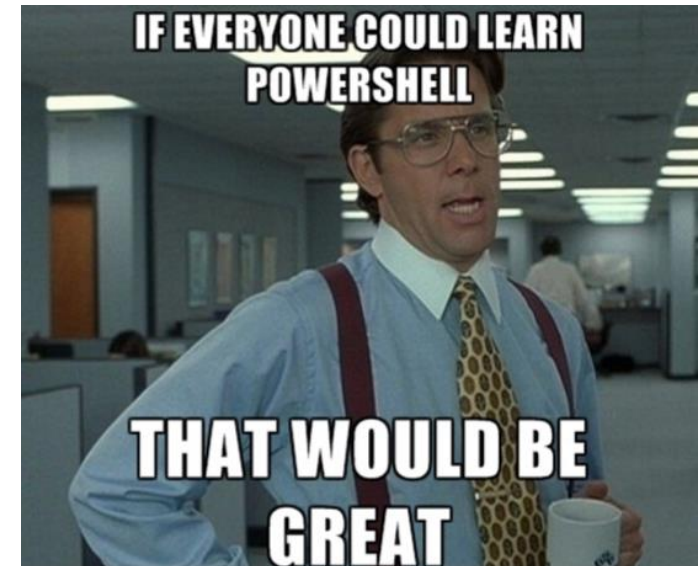
<https://tiny.cc/MISCUG-PADT>

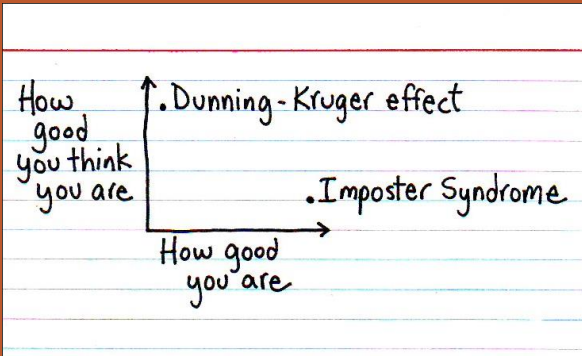
Session Description

Even if you're just starting to learn PowerShell, you can use this powerful toolkit and it's array of functions to automate and self-document your application installations or workstation tweaks. Sure, SCCM can take an MSI and make your life easier, but what if that teacher wants the shortcut moved or the uninstaller removed from the start menu. PADT can help make your life even easier by enabling you to have better interaction with your users, simplify your deployment tasks and standardize your deployment methodology.

I challenge everyone to replace command prompt with PowerShell and not to rely on aliases in the beginning.

- Right-click taskbar
- Select Properties
- Select Navigation tab
- Check "*Replace Command Prompt with Windows PowerShell...*"
- Click OK





Who Am I?

- 20 Years In K12 Technology
 - Intern, Tech, Coordinator, Engineer
- Lifelong Learner
 - [/r/sysadmin](#), [/r/k12sysadmin](#), RSS feeds
- Relentlessly Inquisitive
 - Let's Ask The [WinAdmins Chat](#) (currently [Discord](#))
- Problem Solver
 - Professional Googler
- Voracious Reader
 - [docs.microsoft.com](#)
- Community Minded
 - [MAEDS](#), [MISCUG](#), [WMISMUG](#), [MMS](#)
- [#ImpostorSyndromeBeDamned](#)
 - Own what you know. Be confident, not arrogant. Ask questions. *Be wrong*. But don't be silent, and don't think you don't belong in the group.

Past Presentations

2013 MAEDS Fall Conference

Attended 'Marketing Yourself' by [Kris Young](#) and [Kevin Galbraith](#)
"Our Name, Reputation and Skill Sets Need to be KNOWN"

2014 MAEDS Spring PD Day

First time presenting and it's a '[ConfigMgr panel](#)' for a half day session.

2014 MAEDS Fall Conference

Presented '[PADT and SCCM](#)'

2015 MAEDS Spring PD Day

Presented '[ConfigMgr panel](#)' for a half day session.

2015 MAEDS Fall Conference

Presented '[Automate ALL THE THINGS with PowerShell App Deployment Toolkit](#)'

2017 MAEDS Fall Conference

Presented '[PowerShell – Intro session for those that have been too afraid to take the plunge](#)'

2018 MAEDS Fall Conference

Presented '[PowerShell - Intermediate Session for Those That Overcame Their Fears and Took the Plunge](#)'

2019 MACUL Pre Con Workshop

Presented '[Office 365 Admin Training](#)'

2019 MISCUG (April)

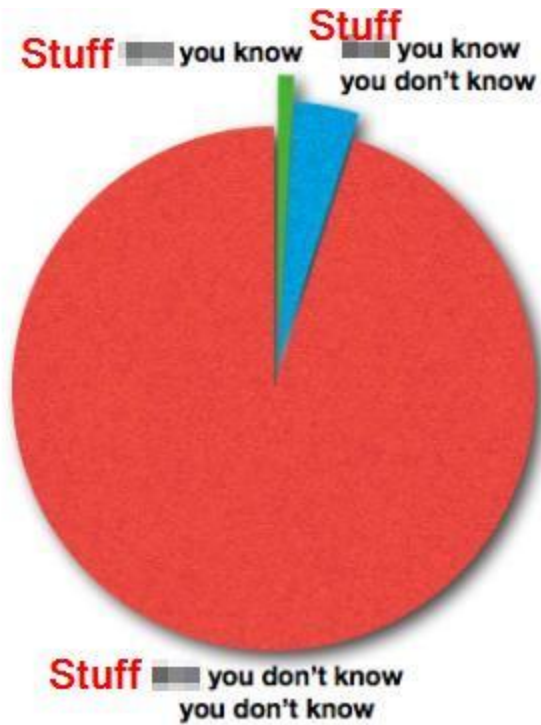
Presented '[MISCUG PowerShell App Deployment Toolkit](#)'



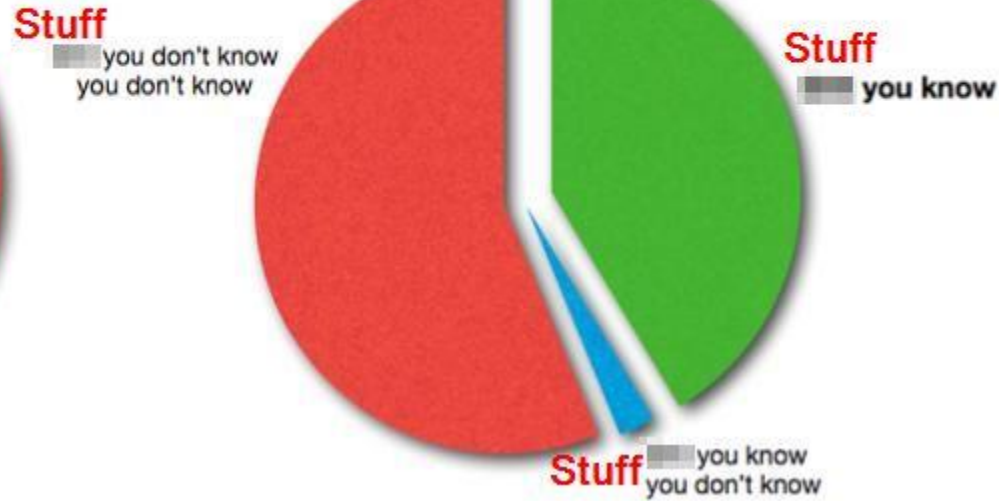
Be The Master

"Teaching does not always feel rewarding. It doesn't need to be. It is a repayment of something that was done for you. It is not a good thing that you do; it is an obligation that you have."

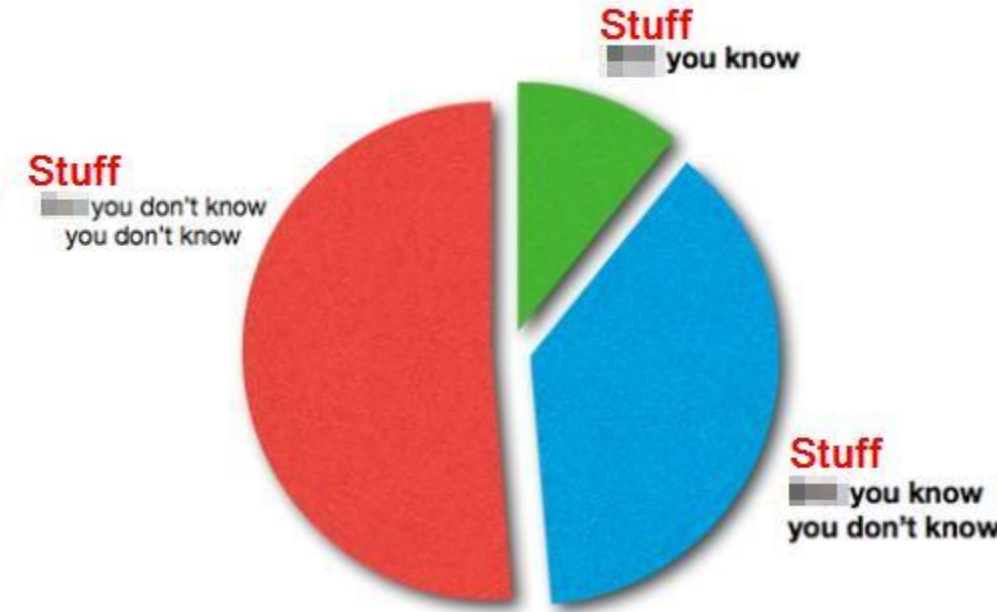
<https://donjones.com/2017/10/19/become-the-master-or-go-away/>



*The goal of education and experience
(as they would lead you to believe)*



The actual goal of education and experience



Wisdom and the Art of Being *Not Dangerous*

No One Knows What the F*** They're Doing (or "The 3 Types of Knowledge")

Steve Schwartz • May 13, 2010

<https://www.bridge-global.com/blog/3-types-of-knowledge/>



Don Jones: “If you’re not willing to play a little bit you’ll probably not be successful at PowerShell.”

Jeffrey Snover: “I’m a Distinguished Engineer, I’m the Lead Architect with Windows Server and System Center Datacenter, and I invented the dang thing and still there’s a struggle to it and that’s normal.”

Windows PowerShell Unplugged with Jeffrey Snover & Don Jones
TechEd North America 2014 • (1hr 16min • quotes @ 3:15)
<https://channel9.msdn.com/Events/TechEd/NorthAmerica/2014/DCIM-B318>

Vocabulary – 01/02

Shell: the command interpreter that is used to pass commands to the operating system

ISE: the Integrated Scripting Environment is an application where you can run, test, and debug scripts in a single GUI with tab completion, syntax coloring, selective execution, and context-sensitive help

Cmdlet: a task-oriented command that is typically used to return a .NET Framework object to the next command in the pipeline

Variable: a name given to stored information, e.g. \$users, \$iWishYouHadAStrongPassword, \$x

Parameter: input values or arguments used by the cmdlet or script to make it more dynamic

- **Named:**

```
PS C:\>  
PS C:\> Get-ChildItem -Path $env:USERPROFILE\AppData\Local\Temp -Filter *.exe
```

- **Positional:**

```
PS C:\>  
PS C:\> Get-ChildItem $env:USERPROFILE\AppData\Local\Temp *.exe
```

- **Switch:**

```
PS C:\>  
PS C:\> Get-ChildItem -Path $env:USERPROFILE\AppData\Local\Temp -Filter *.exe -Recurse
```

Object: a representation of something with methods to take actions against it and properties to access information stored within it

Vocabulary – 02/02

Module: a set of related Windows PowerShell functionalities, grouped together as a convenient unit (usually saved in a single directory)

- **Script Module:** a file (.psm1) that contains PowerShell code for functions, variables and more
- **Binary Module:** a .NET Framework assembly (.dll) that contains compiled code
- **Dynamic Module:** a module that only exists in memory (Import-PSSession)

Pipeline (|): a method to send the results of the preceding command as input to the next command

\$_: "the current object in the pipeline", or "this", or \$PSItem

PSSession: a persistent connection to a local or remote computer that is created, managed and closed by the user

PSDrive: a virtual drive that provides direct access to a data store (file system, registry, certificate store, SCCM)

Function: a command or series of commands grouped to run together

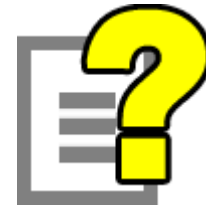
Alias: shortcut to a command, cmdlet or function

Tab Completion: the ability to complete cmdlet names, parameters, file paths, file names, etc with the use of the tab key

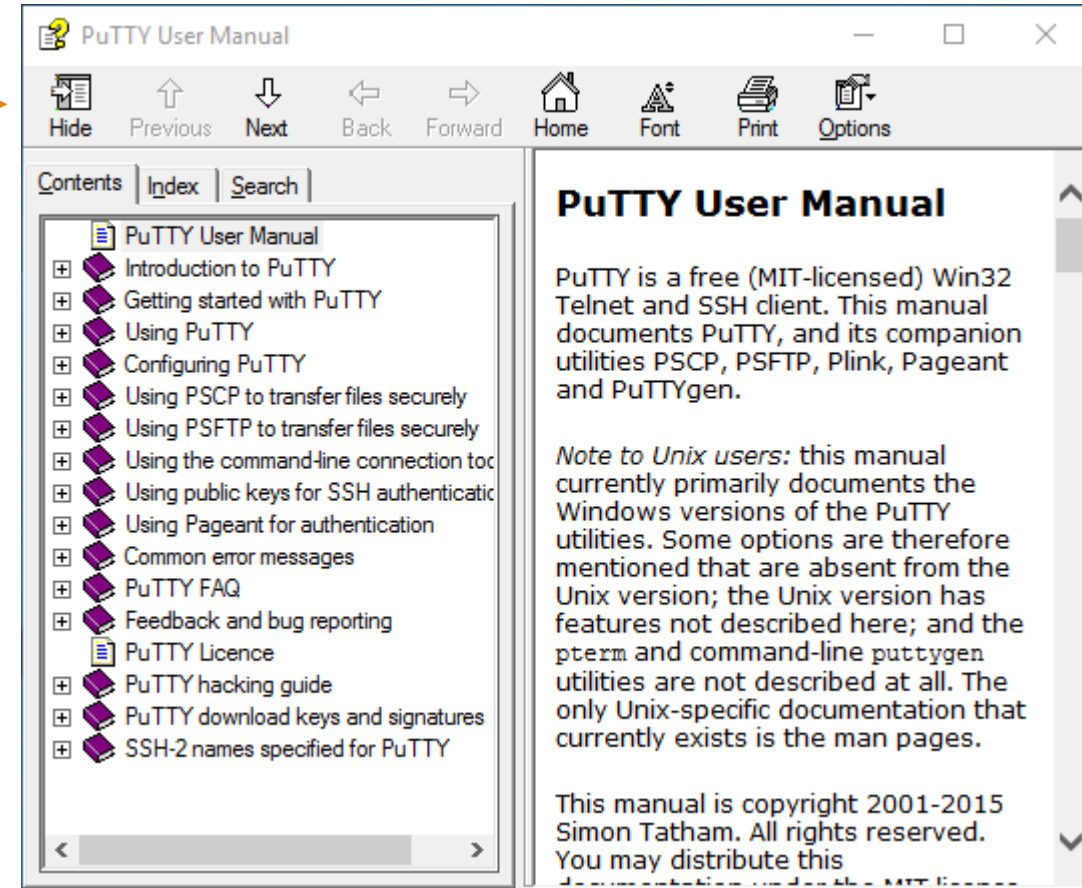
**It is better to
KNOW HOW TO LEARN
than to know.**

-Dr. Seuss

Remember
Microsoft
Compiled HTML
Help Files?



putty.chm



GET-

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Get-Command

ALIAS: gcm

SYNOPSIS: Gets all commands.

```
PS C:\> Get-Command -Module <moduleName>
```

```
PS C:\> Get-Command -Verb Get
```

```
PS C:\> Get-Command -Verb Get -Noun P*
```

```
PS C:\> Get-Command Get-P*
```

```
PS C:\> Get-Command Get-P* -Module Microsoft.PowerShell.Utility
```

```
PS C:\> Get-Command Get-P* -Module Microsoft.PowerShell.Management
```

Get-Help

ALIAS: help, man

SYNOPSIS: Displays information about Windows PowerShell commands and concepts.

```
PS C:\> Get-Help <cmdlet> -Examples
```

```
PS C:\> Get-Help <cmdlet> -Full
```

```
PS C:\> Get-Help <cmdlet> -ShowWindow
```

```
PS C:\> Get-Help <cmdlet> -Online
```

```
PS C:\> Get-Help <cmdlet> | Clip
```

Cheat Mode For Slide Prep

```
PS C:\> Get-Help <cmdlet> | Select-Object -ExpandProperty Synopsis  
| Clip
```

Get-Member

ALIAS: gm

SYNOPSIS: Gets the properties and methods of objects.

```
PS C:\> <cmdlet> | Get-Member
```

Caveat

```
PS C:\> Get-ADUser cthomas | Get-Member
```

vs.

```
PS C:\> Get-ADUser cthomas -Properties * | Get-Member
```


Get-Module

ALIAS: gmo

SYNOPSIS: Gets the modules that have been imported or that can be imported into the current session.

```
PS C:\> Get-Module
```

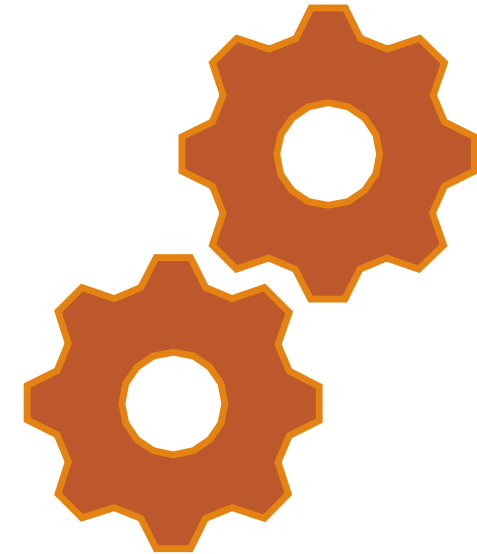
```
PS C:\> Get-Module -ListAvailable
```

```
PS C:\> $session_DC1 = New-PSSession -ComputerName V-DC1
```

```
PS C:\> Get-Module -PSSession $session_DC1 -ListAvailable
```

Why PowerShell App Deployment Toolkit?

- Consistent Deployments
- Self-Documenting
- Pre-Built Logging
- Pre-Built User Interface
- Custom Branding
- Pre-Built Functions and Variables
- Extensible With Custom Functions
- SCCM Integration
- Over 10,000 Lines Of Code, FREE!
- Responsive Developers
- Good Documentation
- Active Release Schedule



PowerShell App Deployment Toolkit

PowerShell App Deployment Toolkit Main Page

<http://psappdeploytoolkit.com/>

PSAppDeployToolkit ~~3.7.0~~^{3.8.0} Direct Download

https://github.com/PSAppDeployToolkit/PSAppDeployToolkit/releases/download/3.7.0/PSAppDeployToolkit_v3.7.0.zip
^{3.8.0} ~~3.7.0~~ ^{3.8.0}

Discussion Boards

<https://discourse.psappdeploytoolkit.com/>

Authors

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- twitter.com/seanels

Dan Cunningham

- twitter.com/sintaxasn



PowerShell App Deployment Toolkit Shoutouts

Become the Hero of the Day - Master ConfigMgr 2012 R2 with a Limited Budget and Free Community Tools

System Center Universe 2014 • (47min • mentioned @ 36:00)

Kent Agerlund

- twitter.com/agerlund
- blog.coretech.dk/author/kea
- <https://www.youtube.com/watch?v=9hDFqcPjjSA>

Microsoft System Center Configuration Manager Community Jewels

TechEd North America 2014 • (1hr 6min • mentioned @ 18:20)

Jörgen Nilsson

- twitter.com/ccmexec
- ccmexec.com
- channel9.msdn.com/Events/TechEd/NorthAmerica/2014/PCIT-B320#fbid=





New Features in AdminStudio 2016 SP2

This section lists the new features that are included in AdminStudio 2016 SP2:

- [Support for PowerShell Wrapped Packages](#)



27th May 2018

PSAppDeployToolkit now integrated in to Flexera AdminStudio

The PowerShell App Deployment Toolkit remains a free, open source, community developed tool. Due to popular demand, the PSADT is now integrated and distributed with Flexera Admin Studio.

Why we love it

This is a true timesaver, plain and simple, especially for those who don't have a lot of PowerShell experience. In addition, it provides greater control of your installation environment with functions you don't get with SCCM or other application distribution solutions function set!

Without PowerShell wrapping, your options for preparing an application for deployment are: repackage the vendor installer into a format for silent delivery mode, create a transform or run the installer silently.

By wrapping an existing Windows installer (.msi) or complex installation package (.exe) in a PowerShell script, you can automatically perform deployment tasks both before and after installation.

The advantages of using PowerShell wrapping instead of repackaging or transforms to modify an installer include:

- The original package is not modified
- A consistent UI experience to your users for all of your organization's installers
- Provides a more powerful set of functionality than can be provided using transforms



A Single Wrapper Regardless of Format

AdminStudio 2016 SP2 provides full support for converting the following deployment formats into a PowerShell wrapped package:

- Windows Installer packages .msi
- [InstallShield](#) InstallScript .exe files
- InstallShield Basic MSI installers that are compressed into a setup.exe file
- InstallShield Suite Installer .exe files
- Wise Package Studio .exe files
- Other executable file types that can be uncompressed by 7-ZIP

141

votes

Vote

Animated GIFs as icons in Software Center

It would be pretty cool if software center supported animated GIFs for App icons


 Riley Childs shared this idea · November 21, 2018 · [Flag idea as inappropriate...](#)

 Tweet

Add a comment...

 [Attach a File](#)

Your email address

Sign in with:  

Post comment



bdam commented [January 24, 2019 21:33](#) · [Flag as inappropriate](#)

This is the one thing keeping my organization from being able to adopt modern management in our environment and is really hurting our cloud adoption. (Try not to think about that too hard or it'll hurt.) [Why even bother developing the product if this isn't included?](#)

Latest release

3.8.0

b231ed4

PowerShell App Deployment Toolkit 3.8.0

 sintaxsn released this 5 days ago

Version 3.8.0 [09/23/2019]

- Added ability to change the dialog banner height, with a configurable maximum
- Added ability to change the dialog banner and icon filename through the configuration file
- **Added support for animated gifs in the dialog banner**
- Added a dynamic dialog banner height with a configurable maximum to the dialogs
- Added support for flattening folder structure within Copy-File with -Flatten switch
- Added architecture independence to the Show-WelcomePrompt function when filename ends in x64.msi or x86.msi
- Added logging to Remove-Folder function so it is also traceable in the log file when successful
- Changed ProcessObjects parameter in Get-RunningProcesses function to mandatory=\$false so Show-InstallationWelcomePrompt can use it if needed
- Fixed encoding of AppBannerToolboxContent to UTF-8 (was incorrectly UTF16)
- Fixed issue where Execute-MSIExePathTime used ticks instead of seconds
- Fixed issue where Get-RunningProcesses returned illegal characters and locale-specific time / date formats
- Fixed issue where Get-RunningProcesses returned NET objects in Show-WelcomePrompt
- Fixed issue where Show-Log creating log format for CMTrace in non-English cultures
- Fixed issue where Show-Log did not handle quote characters in the Execute-MSIExePath function
- Fixed issue where Show-WelcomePrompt hangs when ForceCloseAppsCountdown is passed to Show-InstallationWelcomePrompt and application(s) listed in ForceCloseApps are not running when timeout is reached
- Fixed issue where Set-PinnedApplication did not pin to / unpin from taskbar on Windows 10 because Microsoft removed the taskbar verbs
- Fixed issue where Get-InstalledApplication only supported Basic Latin unicode characters by removing logic which "removes any control characters which might interfere with logging and creating file path names from these variables", as the creation of file name is only used in Execute-MSI function and the logic there already replaces invalid filename characters
- Fixed issue where Get-LoggedOnUser failed to detect if user is member of the Administrators group, when Administrator group has an orphaned account listed
- Fixed issue where active setup execution fails when StubExePath contains ps1 file in Set-ActiveSetup function

PowerShell App Deployment Toolkit Resources

Installing Applications with PowerShell App Deployment Toolkit - Part 1

<https://replicajunction.github.io/2015/04/07/installing-applications-with-psadt-part1/>

Powershell App Deployment Toolkit: Getting Started

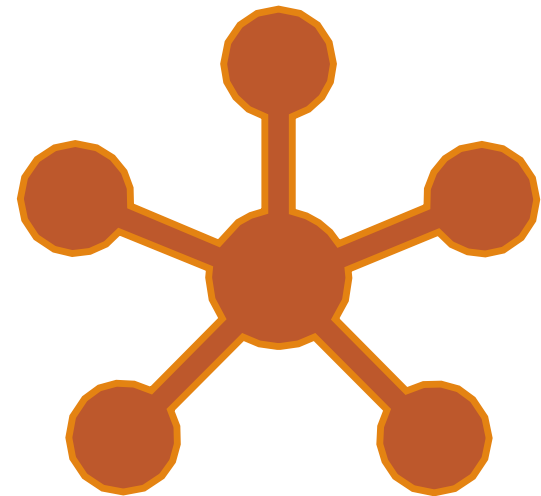
<https://www.youtube.com/watch?v=9bNsrP8iri4>

Java Deployment with SCCM 2012 and PowerShell App Deployment Toolkit

<http://jengeek.blogspot.com/2014/07/java-deployment-with-sccm-2012-and.html>

PSAPPDEPLOYTOOLKIT: GET THE BENEFITS WITHOUT WRITING A SINGLE LINE OF POWERSHELL

<https://dcunningham.net/psappdeploytoolkit-get-the-benefits-without-writing-a-single-line-of-powershell/>



App Packaging Resources

Unattended/Silent Installation Switches for Windows Apps

<http://unattended.sourceforge.net/installers.php>

Window Development System Error Codes

<https://msdn.microsoft.com/en-us/library/windows/desktop/ms681381.aspx>

net helpmsg <errorcode>

<http://blog.configmgrftw.com/error-codes/>

Why the ConfigMgr Package model won't go anywhere

<http://www.david-obrien.net/2014/04/applications-vs-packages-configmgr-package-model-wont-go-anywhere/>



PowerShell App Deployment Toolkit

Functions

Refresh-Desktop	Get-MsiExitCodeMessage	Remove-File	Test-IsMutexAvailable
Refresh-SessionEnvironmentVariables	Get-MsiTableProperty	Remove-Folder	Test-MSUpdates
Register-DLL	Get-ObjectProperty	Remove-MSIApplications	Test-NetworkConnection
Unregister-DLL	Get-PEFileArchitecture	Remove-RegistryKey	Test-PowerPoint
Block-AppExecution	Get-PendingReboot	Resolve-Error	Test-RegistryValue
Close-InstallationProgress	Get-RegistryKey	Send-Keys	Test-ServiceExists
Convert-RegistryPath	Get-RunningProcesses	Set-ActiveSetup	Unblock-AppExecution
ConvertTo-NTAccountOrSID	Get-ScheduledTask	Set-DeferHistory	Update-Desktop
Copy-File	Get-ServiceStartMode	Set-IniValue	Update-GroupPolicy
Disable-TerminalServerInstallMode	Get-UniversalDate	Set-MsiProperty	Update-SessionEnvironmentVariables
Enable-TerminalServerInstallMode	Get-UserProfiles	Set-PinnedApplication	Write-FunctionHeaderOrFooter
Execute-MSI	Get-WindowTitle	Set-RegistryKey	Write-Log
Execute-MSP	Install-MSUpdates	Set-ServiceStartMode	
Execute-Process	Install-SCCMSoftwareUpdates	Show-BalloonTip	
Execute-ProcessAsUser	Invoke-	Show-DialogBox	
Exit-Script	HKCURegistrySettingsForAllUsers	Show-InstallationProgress	
Get-DeferHistory	Invoke-ObjectMethod	Show-InstallationPrompt	
Get-FileVersion	Invoke-RegisterOrUnregisterDLL	Show-InstallationRestartPrompt	
Get-FreeDiskSpace	Invoke-SCCMTask	Show-InstallationWelcome	
Get-HardwarePlatform	New-Folder	Show-WelcomePrompt	
Get-IniValue	New-MsiTransform	Start-ServiceAndDependencies	
Get-InstalledApplication	New-Shortcut	Stop-ServiceAndDependencies	
Get-LoggedOnUser	New-ZipFile	Test-Battery	

PowerShell App Deployment Toolkit Variables

Toolkit Name

\$appDeployToolkitName
\$appDeployMainScriptFriendlyName
Script Info
\$appDeployMainScriptVersion
\$appDeployMainScriptMinimumConfigVersion
\$appDeployMainScriptDate
\$appDeployMainScriptParameters

Datetime and Culture

\$currentTime
\$currentTime
\$currentTime
\$currentTimeZoneBias
\$culture
\$currentLanguage
\$currentUILanguage

Environment Variables

\$envHost
\$envShellFolders
\$envAllUsersProfile
\$envAppData
\$envArchitecture
\$envCommonProgramFiles
\$envCommonProgramFilesX86
\$envCommonDesktop
\$envCommonDocuments
\$envCommonStartMenuPrograms
\$envCommonStartMenu
\$envCommonStartUp
\$envCommonTemplates
\$envComputerName
\$envComputerNameFQDN
\$envHomeDrive
\$envHomePath

\$envHomeShare
\$envLocalAppData
\$envLogicalDrives
\$envProgramFiles
\$envProgramFilesX86
\$envProgramData
\$envPublic
\$envSystemDrive
\$envSystemRAM
\$envSystemRoot
\$envTemp
\$envUserCookies
\$envUserDesktop
\$envUserFavorites
\$envUserInternetCache
\$envUserInternetHistory
\$envUserMyDocuments
\$envUserName
\$envUserProfile
\$envUserSendTo
\$envUserStartMenu
\$envUserStartMenuPrograms
\$envUserStartUp
\$envSystem32Directory
\$envWinDir

Domain Membership

\$IsMachinePartOfDomain
\$envMachineWorkgroup
\$envMachineAddDomain
\$envLogonServer
\$MachineDomainController
\$envMachineDNSDomain
\$envUserDNSDomain
\$envUserDomain

Operating System

\$envOS
\$envOSName
\$envOSServicePack
\$envOSVersion
\$envOSVersionMajor
\$envOSVersionMinor
\$envOSVersionBuild
\$envOSVersionRevision
\$envOSProductType
\$IsServerOS
\$IsDomainControllerOS
\$IsWorkStationOS
\$envOSProductTypeName
\$Is64Bit
\$envOSArchitecture

Current Process Architecture

\$Is64BitProcess
\$psArchitecture

PowerShell And CLR (.NET) Versions

\$envPSVersionTable
\$envPSVersion
\$envPSVersionMajor
\$envPSVersionMinor
\$envPSVersionBuild
\$envPSVersionRevision
\$envCLRVersion
\$envCLRVersionMajor
\$envCLRVersionMinor
\$envCLRVersionBuild
\$envCLRVersionRevision

Permissions/Accounts

\$CurrentProcessToken
\$CurrentProcessSID

\$ProcessNTAccount
\$ProcessNTAccountSID
\$IsAdmin
\$IsLocalSystemAccount
\$IsLocalServiceAccount
\$IsNetworkServiceAccount
\$IsServiceAccount
\$IsProcessUserInteractive
\$LocalSystemNTAccount
\$SessionZero

Script Name and Script Paths

\$scriptPath
\$scriptName
\$scriptFileName
\$scriptRoot
\$invokingScript
\$scriptParentPath

App Deploy Script Dependency Files

\$appDeployLogolcon
\$appDeployLogoBanner
\$appDeployConfigFile
\$appDeployToolkitDotSourceExtensions
\$xmlConfigFile
\$configConfigVersion
\$configConfigDate

Script Directories

\$dirFiles
\$dirSupportFiles
\$dirAppDeployTemp

Script Naming Convention

\$appVendor
\$appName

\$appVersion
\$appLang
\$appRevision
\$appArch
\$installTitle
\$installName

Executables

\$exeWusa
\$exeMsiexec
\$exeSchTasks
RegEx Patterns
\$MSIProductCodeRegExPattern

Registry Keys

\$regKeyApplications
\$regKeyLotusNotes
\$regKeyAppExecution
\$regKeyDeferHistory

COM Objects

\$Shell
\$ShellApp

Log File

\$logName
\$logTempFolder
\$configToolkitLogDir
\$DisableScriptLogging
\$RevertScriptLogging

Script Parameters

\$deployAppScriptParameters
\$appDeployMainScriptParameters
\$appDeployExtScriptParameters

Logged On Users

\$LoggedOnUserSessions
\$usersLoggedOn
\$CurrentLoggedOnUserSession
\$CurrentConsoleUserSession
\$RunAsActiveUser

Miscellaneous

\$dpiPixels
\$runningTaskSequence
\$IsTaskSchedulerHealthy
\$invalidFileNameChars
\$useDefaultMsi

```

1  #*=====
2  #* PRE-INSTALLATION
3  If ($deploymentType -ne "uninstall") { $installPhase = "Pre-Installation"
4  #*=====
5      # Perform pre-installation tasks here
6  #*=====
7  #* INSTALLATION
8  $installPhase = "Installation"
9  #*=====
10     # Perform installation tasks here
11 #*=====
12 #* POST-INSTALLATION
13 $installPhase = "Post-Installation"
14 #*=====
15     # Perform post-installation tasks here
16 #*=====
17 #* PRE-UNINSTALLATION
18 } ElseIf ($deploymentType -eq "uninstall") { $installPhase = "Pre-Uninstallation"
19 #*=====
20     # Perform pre-uninstallation tasks here
21 #*=====
22 #* UNINSTALLATION
23 $installPhase = "Uninstallation"
24 #*=====
25     # Perform uninstallation tasks here
26 #*=====
27 #* POST-UNINSTALLATION
28 $installPhase = "Post-Uninstallation"
29 #*=====
30     # Perform post-uninstallation tasks here

```

```

PS C:\Users\chthomas> Get-WmiObject win32_product | Where-Object -Property "Name" -like "*adobe*" | Select-Object -Property Name, IdentifyingNumber

Name                                         IdentifyingNumber
----                                         -
Adobe Reader XI (11.0.07) MUI              {AC76BA86-7AD7-FFFF-7B44-AB0000000001}
Adobe Flash Player 14 ActiveX              {C4B95D2E-BDE6-412D-AF7B-EC43A298C55B}
Adobe Flash Player 14 Plugin               {3FC9A6DE-C105-4576-8F63-656FFB1BF8EB}

PS C:\Users\chthomas> gwmi win32_product | ? {$_.name -like "*adobe*"} | select name, identifyingnumber

name                                         identifyingnumber
----                                         -
Adobe Reader XI (11.0.07) MUI              {AC76BA86-7AD7-FFFF-7B44-AB0000000001}
Adobe Flash Player 14 ActiveX              {C4B95D2E-BDE6-412D-AF7B-EC43A298C55B}
Adobe Flash Player 14 Plugin               {3FC9A6DE-C105-4576-8F63-656FFB1BF8EB}

PS C:\Users\chthomas>

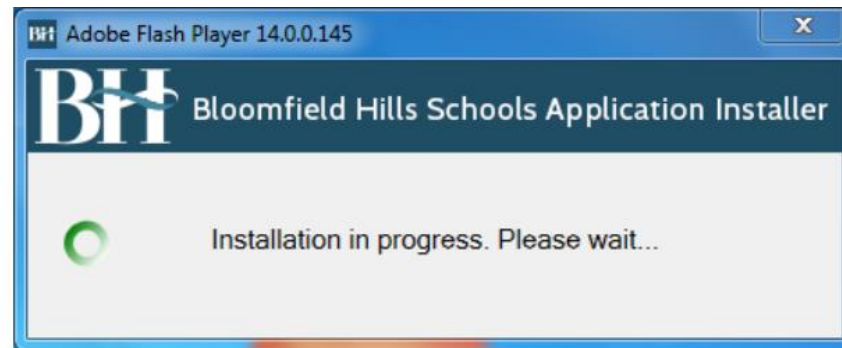
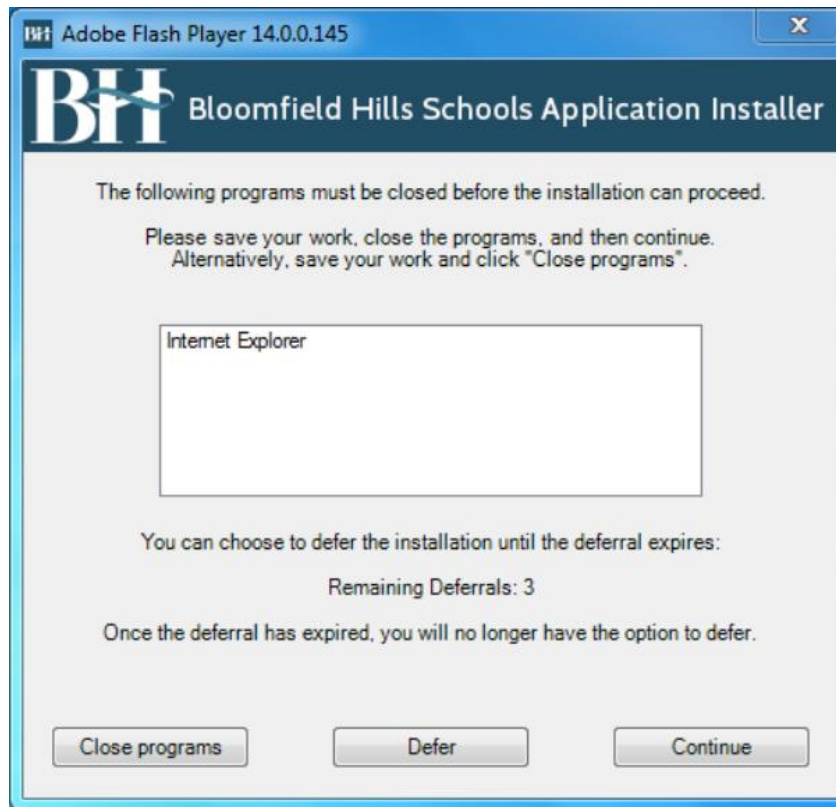
```

PowerShell Way

Get-WmiObject win32_product | Where-Object -Property "Name" -like "*adobe*" | Select-Object -Property Name, IdentifyingNumber

LazyMode Way

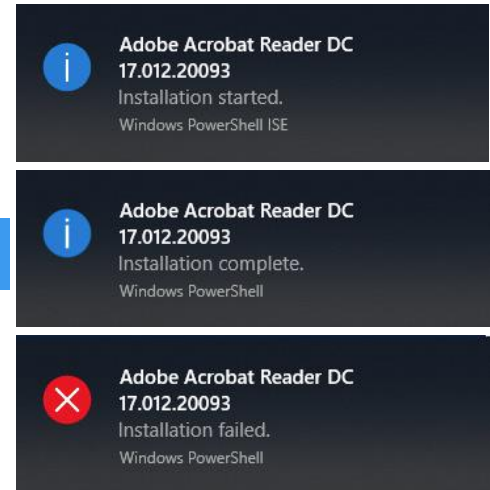
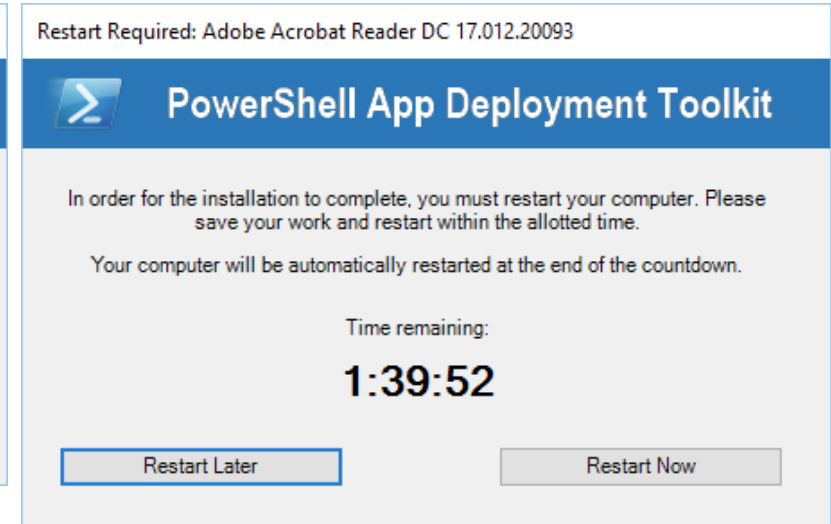
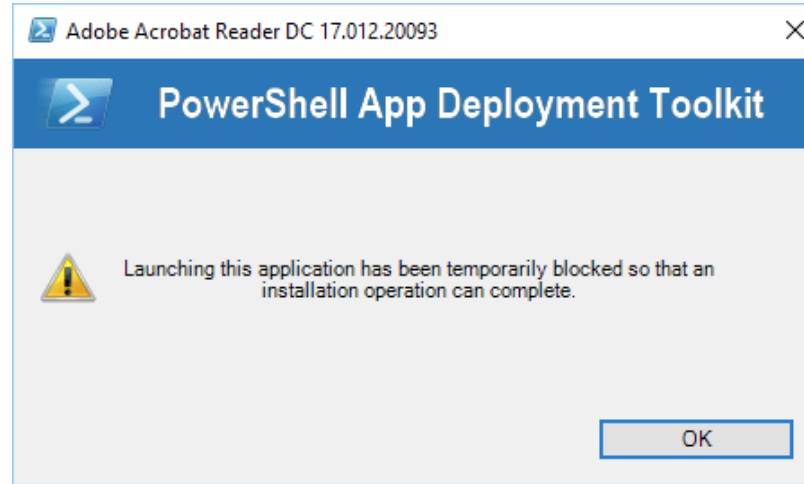
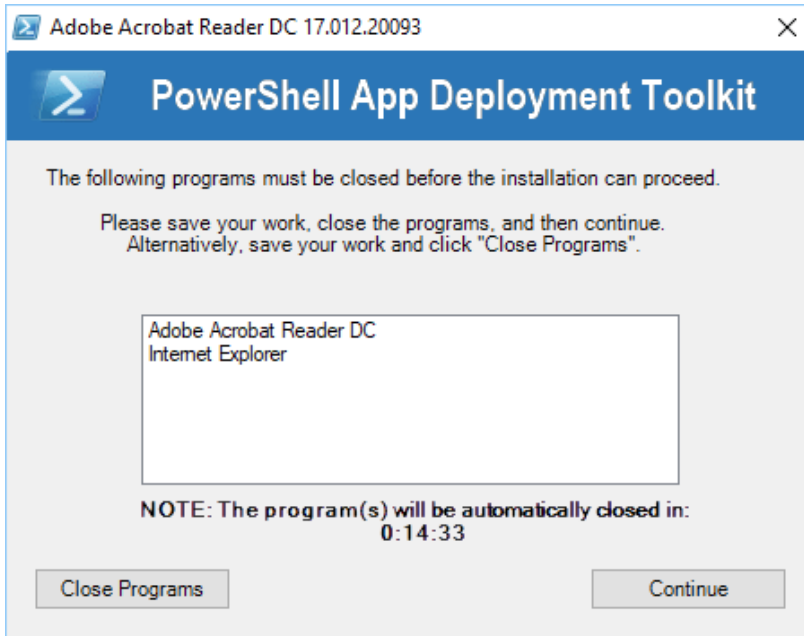
gwmi win32_product | ? {\$_.name -like "*adobe*"} | select name, identifyingnumber

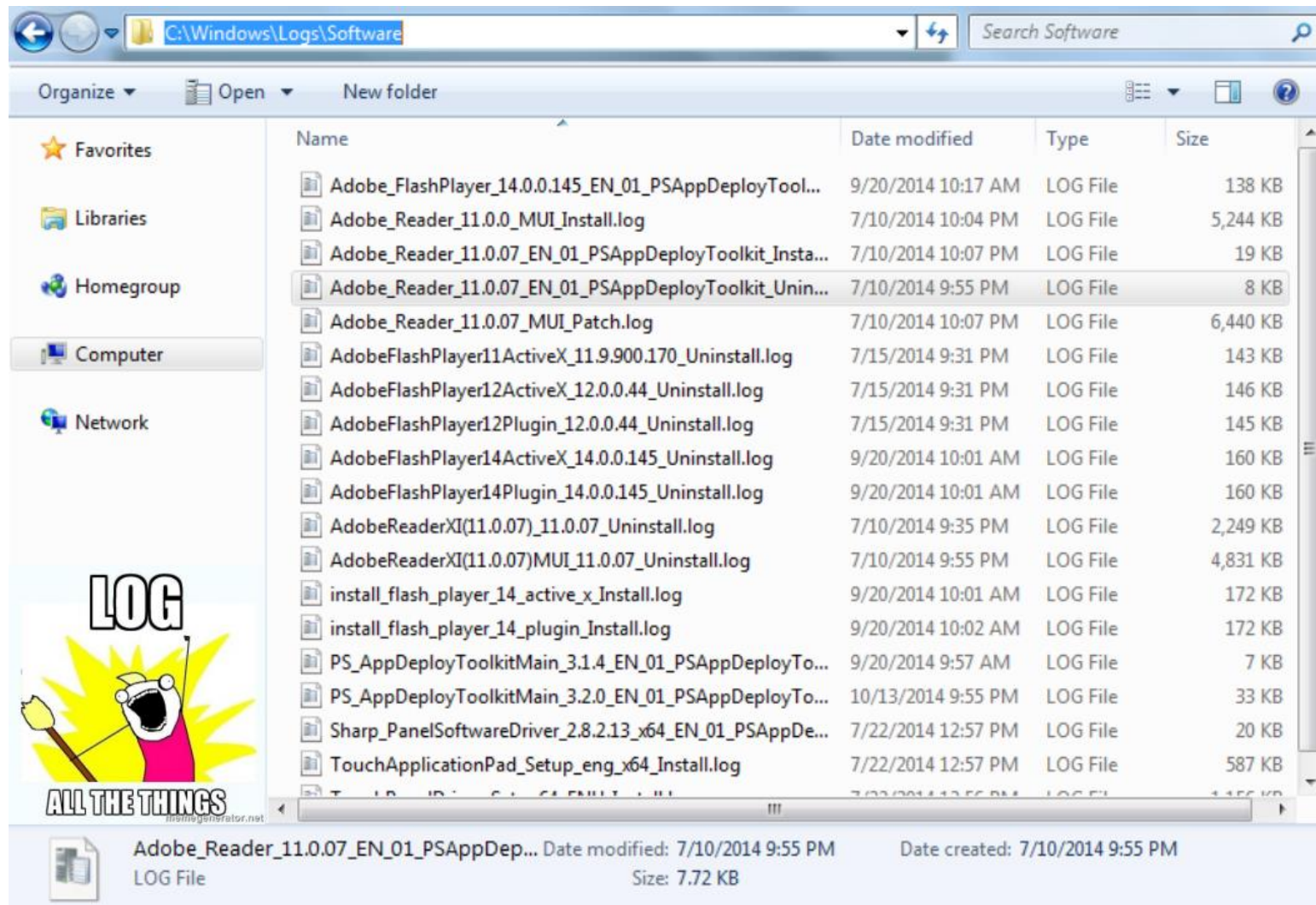


Why code what you don't have to?

```
1310 #region Function Show-InstallationPrompt
1311 #Function Show-InstallationPrompt {...}
1676 #endregion
```







What's new in version 1806 - CMTrace installed with client - %WinDir%\ccm\cmtrace.exe

Import-Module For Tab Completion While Staging Applications

- Open... `.\AppDeployToolkit\AppDeployToolkitMain.ps1`
- Save As... `.\AppDeployToolkit\AppDeployToolkitMain.psm1`
- Import-Module to profile
(*you have a profile, right?*)
`.\Documents\WindowsPowerShell\Microsoft.PowerShellISE_profile.ps1`
- Get-Command -Module AppDeployToolkitMain
- Get-Help <cmdlet/function> -Full / -Examples



Examples

```

1 @echo off
2 Title Installing Itunes
3
4 REM Install iTunes x64 with pre-reqs
5 start /wait msixec /i "%~dp0AppleApplicationSupport.msi" /q /norestart allusers=1
6 start /wait msixec /i "%~dp0AppleMobileDeviceSupport64.msi" /q
7 start /wait msixec /i "%~dp0AppleSoftwareUpdate.msi" /q
8 start /wait msixec /i "%~dp0Bonjour64.msi" /q
9 start /wait msixec /i "%~dp0iTunes64.msi" /q
10
11 REM Removes Desktop Shortcut - Windows 7
12 if exist "C:\Users\Public\Desktop\iTunes.lnk" del "C:\Users\Public\Desktop\iTunes.lnk"
13
14 REM Removes Auto Launch from registry
15 reg delete "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run" /v "iTunesHelper" /f
16
17 REM Copy Storytelling Alice to Local Machine
18 xcopy /E /Y /V "%~dp0*. *" "C:\Program Files (x86)\Storytelling Alice\"
19
20 REM Copy Alice Shortcut to All Users Program Menu
21 if exist "C:\Program Files (x86)\Storytelling Alice\Storytelling Alice.lnk" copy "C:\Program Files (x86)\Storytelling Alice\Storytelling Alice.lnk" "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Storytelling Alice.lnk"
22
23 REM MSP Example ~~
24 @Echo off
25
26 msixec.exe /i "%~dp0Exceptions\AcrobatProfessional10.0-EFG\AcroPro.msi EULA_ACCEPT=YES REGISTRATION_SUPPRESS=YES SUITEMODE=1 INSTALLLEVEL=101 AS_DISABLE_LEGACY_COLOR=1 IGNOREAAM=1 TRANSFORMS=en_US.mst /qn
27 msixec.exe /i "%~dp0Build\Adobe_CS6_Design_and_Web_Premium_x64.msi /quiet REBOOT=ReallySuppress
28 msixec.exe /p PATCH=%~dp0Exceptions\AcrobatProfessional10.0-EFG\AcrobatUpd1011.msp /qn
29 msixec.exe /i "%~dp0Exceptions\AdobePDFSettings11-mul\AdobePDFSettings11-mul.msi ADOBE_SETUP=1 /qn
30 "%~dp0Exceptions\AdobeHelp\InstallAdobeHelp.exe appVersion=4.0.244 appId=chc pubId=4875E02D9FB21EE389F73B8D1702B320485DF8CE.1 installerArg1=-silent installerArg2=-eulaAccepted installerArg3=-programMenu installerArg4=AdobeHelp.e
31
32 REM Install Google Chrome
33 msixec /qn /norestart /i "%~dp0GoogleChromeStandaloneEnterprise.msi"
34
35 REM Copy Master Preferences to Local Machine
36 if exist "c:\Program Files\Google\Chrome\Application\master_preferences" copy /y "%~dp0master_preferences" "C:\Program Files\Google\Chrome\Application\master_preferences"
37 if exist "c:\Program Files (x86)\Google\Chrome\Application\master_preferences" copy /y "%~dp0master_preferences" "C:\Program Files (x86)\Google\Chrome\Application\master_preferences"
38
39 REM Removes Desktop Shortcut - Windows 7
40 if exist "C:\Users\Public\Desktop\Google Chrome.lnk" del "C:\Users\Public\Desktop\Google Chrome.lnk"
41
42 REM Disable Auto Update
43 reg add HKLM\Software\Policies\Google\Update /f /v AutoUpdateCheckPeriodMinutes /d 0
44
45 REM Stop and Disable Google Update Service
46 sc stop gupdate
47 sc config gupdate start= disabled
48
49 REM Delete Google Update Scheduled Tasks
50 schtasks /delete /TN "GoogleUpdateTaskMachineCore" /F
51 schtasks /delete /TN "GoogleUpdateTaskMachineUA" /F
52
53 REM Return exit code to SCCM
54 exit /B %EXIT_CODE%

```



```

1 @echo off
2
3 REM This hasn't been parameterized yet, so replace the appropriate folders/files below.
4 REM Also, the jre folder must exist inside the source folder with the scripts.
5 REM I'm doing msi parameters along with regedits since the parameters didn't work consistently between versions for me...
6
7 taskkill /F /IM iexplorer.exe
8 taskkill /F /IM iexplore.exe
9 taskkill /F /IM firefox.exe
10 taskkill /F /IM chrome.exe
11 taskkill /F /IM javaw.exe
12 taskkill /F /IM jqs.exe
13 taskkill /F /IM jusched.exe
14
15 REM Call the uninstall script
16 cscript %~dp0Java_Uninstall.vbs
17
18 REM Install JRE x86
19 msexec.exe /i %~dp0\jrel.7.0_51_x86\jrel.7.0_51.msi /passive /norestart AUTOUPDATECHECK=0 JAVAUPDATE=0 IEXPLORER=1 /l*v c:\windows\temp\Java7x86.log
20
21 REM Installing JRE x64
22 if exist %ProgramFiles(x86)%
23 msexec.exe /i %~dp0\jrel.7.0_51_x64\jrel.7.0_51.msi /passive /norestart AUTOUPDATECHECK=0 JAVAUPDATE=0 IEXPLORER=1 /l*v c:\windows\temp\Java7x64.log
24
25 REM Disable automatic updates
26 reg delete "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run" /v SunJavaUpdateSched /f
27 reg add "HKEY_LOCAL_MACHINE\Software\JavaSoft\Java Update\Policy" /v EnableJavaUpdate /t REG_DWORD /d 0 /f
28
29 REM Start Menu shortcuts
30 rmdir "%PROGRAMDATA%\Microsoft\Windows\Start Menu\Programs\Java" /S /Q
31
32 REM Return the exit code to SCCM
33 exit /B %EXIT_CODE%

```

```

1  '#####
2  '# Written by Ivan Dretvic (http://ivan.dretvic.com)
3  '# Creates all users Greenshot start menu short cut
4  '#####
5
6  'This script requires a variable of %ProgramFiles% (or the location of the root folder of Greenshot software).
7  'This was the simplest method to create appropriate shortcut with minimal code.
8  On error resume next
9  if WScript.Arguments.Count > 0 then
10     dim shell, lnkPath, link, pfpath
11     Set shell = WScript.CreateObject("WScript.shell")
12     lnkPath = shell.SpecialFolders("AllUsersStartMenu")
13     Set link = shell.CreateShortcut(lnkPath & "\Kompozer.lnk")
14     link.Description = "Kompozer - Easy web authoring"
15     pfpath = WScript.Arguments.item(0)
16     link.TargetPath = pfpath & "\Kompozer\kompozer.exe"
17     link.WorkingDirectory = pfpath & "\Kompozer"
18     link.IconLocation = pfpath & "\Kompozer\kompozer.exe,0"
19     link.Save
20     set shell = nothing
21     set lnkpath = nothing
22     set link = nothing
23     set pfpath = nothing
24 end if

```

Firefox 38.3.0 ESR

Execute-Process, Copy-File, New-Folder, Uninstalling non-MSI Applications

```
1  ## <Perform Installation tasks here>
2  Execute-Process -Path "$dirFiles\Firefox Setup 38.3.0esr.exe" -Parameters "/INI=$dirFiles\config.ini"
3
4  ## <Perform Post-Installation tasks here>
5  #Execute-Process -Path "$envProgramFilesX86\Mozilla Maintenance Service\uninstall.exe" -Parameters "/S"
6  Copy-File -Path $dirFiles\cck2\defaults\pref\autoconfig.js -Destination "$envProgramFilesX86\Mozilla Firefox\defaults\pref"
7  Copy-File -Path $dirFiles\override.ini -Destination "$envProgramFilesX86\Mozilla Firefox\browser"
8
9  #Copy The CCK2 Stuff
10 Copy-File -Path $dirFiles\cck2\cck2.cfg -Destination "$envProgramFilesX86\Mozilla Firefox"
11 New-Folder -Path "$envProgramFilesX86\Mozilla Firefox\cck2\"
12 Copy-File -Path $dirFiles\cck2\cck2\*. * -Destination "$envProgramFilesX86\Mozilla Firefox\cck2\"
13 New-Folder -Path "$envProgramFilesX86\Mozilla Firefox\cck2\modules\"
14 Copy-File -Path $dirFiles\cck2\cck2\modules\*. * -Destination "$envProgramFilesX86\Mozilla Firefox\cck2\modules\"

```

```
1  # <Perform Uninstallation tasks here>
2  Execute-Process -Path "$envProgramFilesX86\Mozilla Firefox\uninstall\helper.exe" -Parameters '/S'
3  Get-ChildItem -Path "$envProgramFilesX86\Mozilla Firefox" -Include * | Remove-Item -Recurse

```

CODE: <https://pastebin.com/6QxKiYp3>

Lego Mindstorms EV3 1.1.1

Execute-Process, Execute-MSI, Post-Install Cleanup (1 installer requires 11 uninstallers for full cleanup)

```
1  ## <Perform Installation tasks here>
2  Execute-Process -Path "$dirFiles\setup.exe" -Parameters "/r:n /qn /AcceptLicenses yes"
```

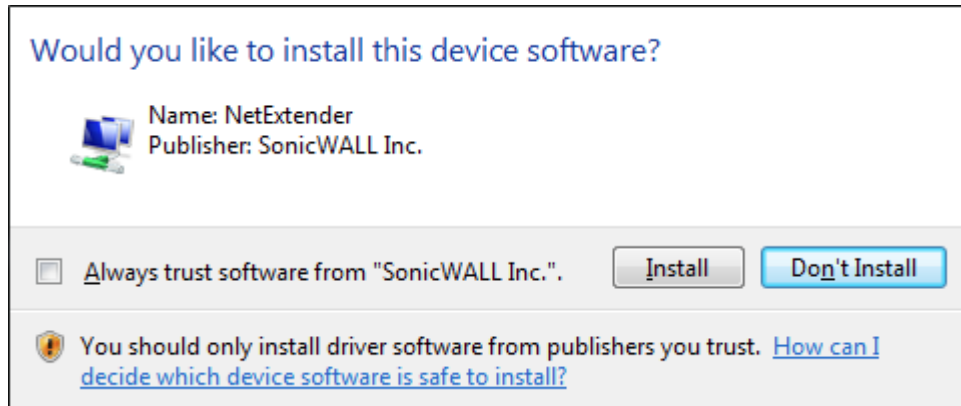
Get-WmiObject -Class Win32_Product -Filter "InstallDate = '20190318'"

```
1  ## <Perform Pre-Uninstallation tasks here>
2  ## Uninstall LEGO MINDSTORMS NXT x64 Driver
3  Execute-MSI -Action Uninstall -Path "{A0831C28-A6FA-49A3-86AE-B5AE3C9EE19C}"
4  ## Uninstall LEGO MINDSTORMS EV3
5  #Execute-MSI -Action Uninstall -Path "LEGO_SW.{5B0CB826-E499-4E6B-94F0-75B6327ED934}"
6  ## Uninstall LEGO MINDSTORMS EV3 Home Edition
7  Execute-MSI -Action Uninstall -Path "{01D821CA-B361-45E2-8748-904AFEDC1DBD}"
8  ## Uninstall LEGO MINDSTORMS EV3 Uninstaller
9  Execute-MSI -Action Uninstall -Path "{5F3092B9-4240-4037-A287-BF6F9A2996BC}"
10 ## Uninstall LEGO MINDSTORMS EV3 Home Content
11 Execute-MSI -Action Uninstall -Path "{6AAF31BC-3005-429B-90D8-1C4A18DEE73A}"
12 ## Uninstall LEGO MINDSTORMS EV3 Home English Support
13 Execute-MSI -Action Uninstall -Path "{C4CF0D3D-8724-4B20-ABB0-4C73BDEA0F63}"
14 ## Uninstall VI VC2008MSMs x64
15 Execute-MSI -Action Uninstall -Path "{07E00E94-7A78-40FA-9BEF-71C190E98041}"
16 ## Uninstall NI EulaDepot
17 Execute-MSI -Action Uninstall -Path "{87F60C46-07E2-46B4-B872-680DE4184C0A}"
18 ## Uninstall NI .NET Framework 4
19 Execute-MSI -Action Uninstall -Path "{A3A11F6C-E573-4D1C-A9D4-701D7551544B}"
20 ## Uninstall NI Uninstaller
21 Execute-MSI -Action Uninstall -Path "{C7743231-5899-418D-8CA5-22B0F654D894}"
22 ## Uninstall NI VC2008MSMs x86
23 Execute-MSI -Action Uninstall -Path "{E84997A1-4D6F-4C0B-B60D-F85B360D2666}"
24 ## Uninstall NI MDF Support
25 Execute-MSI -Action Uninstall -Path "{FA35D849-889D-4454-9532-6BE2008D2CDF}"
```

CODE: <https://pastebin.com/ygAZPpcX>

Sharp Panel Pen Drivers & Software – 1/2

*Execute-Process, Execute-MSI, Show-InstallationPrompt (Required User Interaction), Remove-File
Install Certificate*



InstallShield Record Installation and Uninstallation

<http://unattended.sourceforge.net/installers.php>

RECORD: /r Copy: c:\windows\setup.iss

USE: /s /sms install.iss/uninstall.iss

CODE: <http://pastebin.com/ZTxViEuJ>

Sharp Panel Pen Drivers & Software – 2/2

```
1 # Import SHARP certificate for driver installation
2 Execute-Process -FilePath "$dirSupportFiles\certutil.exe" -Arguments "-addstore -f `\"TrustedPublisher`\" $dirSupportFiles\sharp.cer"
3
4 # Install 64-bit Sharp Touch Panel Driver, Pen Software, Touch Application Pad Software and Pen Software Update
5 if ((Get-WmiObject -Class Win32_OperatingSystem | Select-Object OSArchitecture) -like "**64-bit*"){
6     Execute-MSI -Action Install -Path "$dirFiles\TouchPanelDriver_Setup64_ENU.msi"
7     Execute-Process -FilePath "$dirFiles\PenSoftware_Setup_x64.exe" -Arguments "/s /sms /fl$dirFiles\PenSoftware_Setup_x64_Install.iss"
8     Execute-MSI -Action Install -Path "$dirFiles\TouchApplicationPad_Setup_eng_x64.msi"
9
10     Show-InstallationPrompt -Message "This next installer could not be completely automated. You will need to proceed through the prompts to complete the installation.
11     `n`nPlease click: `n`n- Next `n- Next `n- Install `n- Finish" -PersistPrompt -Icon Exclamation -ButtonMiddleText "OK"
12
13     Execute-Process -FilePath "$dirFiles\PenSoftware_(Ver.2.8.2.13)_Updater.exe" -Arguments "/s /sms /fl$dirFiles\PenSoftware_(Ver.2.8.2.13)_Updater_Install.iss"
14 }
15
16 # Perform uninstallation tasks here
17
18 # Prompt the user to close the following applications if they are running:
19 Show-InstallationWelcome -CloseApps "sharpenn" -AllowDefer -DeferTimes 3
20 # Show Progress Message (with a message to indicate the application is being uninstalled)
21 Show-InstallationProgress -StatusMessage "Uninstalling Application $installTitle. Please Wait..."
22
23 # Uninstall x64 Touch Panel Driver
24 Execute-MSI -Action Uninstall -Path "{7626BF3E-02BF-4896-8E71-4342BD67ED8E}"
25
26 # Uninstall x64 Pen Software (pre-update)
27 # Execute-Process -FilePath "$dirFiles\PenSoftware_Setup_x64.exe" -Arguments "/s /sms /fl$dirFiles\PenSoftware_Setup_x64_Uninstall.iss"
28
29 # Uninstall x64 Touch Application Pad Software
30 Execute-MSI -Action Uninstall -Path "{D08BFAFA-2832-41C0-A092-4D30DC626168}"
31
32 # Uninstall x64 Pen Software Update
33 Execute-MSI -Action Uninstall -Path "{0164330E-769E-4F9A-B070-9256CF175659}"
34
35 # Uninstall x64 Pen Software with Update
36 Show-InstallationPrompt -Message "This next uninstaller could not be completely automated. You will need to proceed through the prompts to complete the uninstallation.
37 `n`nPlease click: `n`n- Remove (radio button) `n- Next `n- Yes `n- Finish" -PersistPrompt -Icon Exclamation -ButtonMiddleText "OK"
38
39 Execute-Process -FilePath "$dirFiles\PenSoftware_(Ver.2.8.2.13)_Updater.exe" -Arguments "/s /sms /fl$dirFiles\PenSoftware_(Ver.2.8.2.13)_Updater_Uninstall.iss"
```

CODE: <http://pastebin.com/ZTxViEuj>

Wacom Bamboo Tablet 5.3.5-3

Post-Install Cleanup (if installer provides no opt-out for plug-ins)

```
1 # Perform installation tasks here
2 Execute-Process -FilePath "$dirFiles\setup.exe" -Arguments "/s"
Get-WmiObject -Class Win32_Product -Filter "InstallDate = '20190318'"
1 #Remove Facebook Plugins
2 Execute-Process -FilePath "$envProgramFiles\TabletPlugins\fbWTPUninstall.exe" -Arguments "/S"
3 Execute-Process -FilePath "$envProgramFilesX86\TabletPlugins\fbWTPUninstall.exe" -Arguments "/S"
```

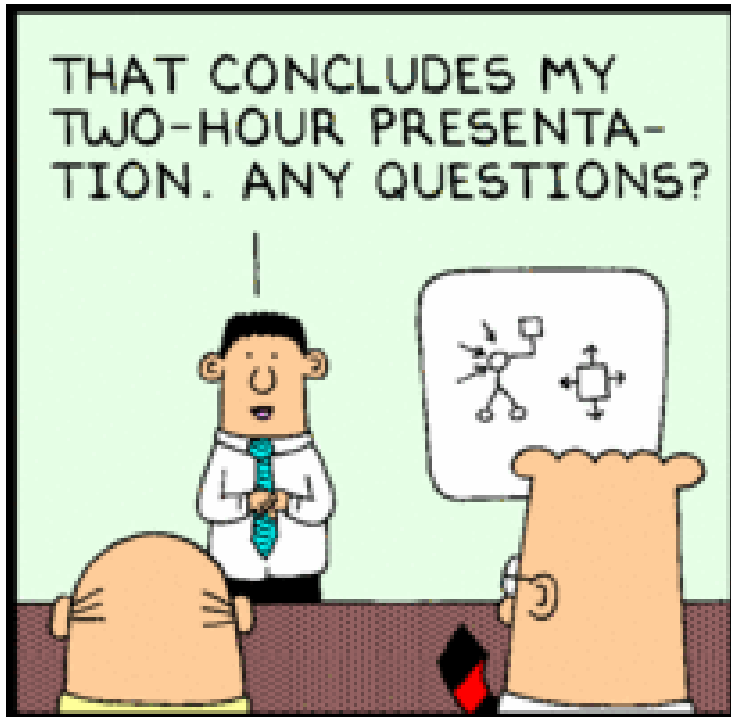
CODE: <https://pastebin.com/6QxKiYp3>

Cisco IP Communicator - BringToFront

Non-Standard Usage - Workstation Tweaks

```
1  ## Show Welcome Message, close Internet Explorer if required, allow up to 3 deferrals, verify there is enough disk space to complete
2  Show-InstallationWelcome -CloseApps 'communicator9' -AllowDefer -DeferTimes 3 -CheckDiskSpace -PersistPrompt
3
4  ## <Perform Installation tasks here>
5  Set-RegistryKey -Key 'HKEY_CURRENT_USER\SOFTWARE\Cisco Systems, Inc.\Communicator' -Name 'BringToFront' -Value '1' -Type String
6
7  ## <Perform Post-Installation tasks here>
8  Execute-Process -Path "C:\Program Files (x86)\Cisco Systems\Cisco IP Communicator\communicator9.exe" -NoWait
```

CODE: <https://gist.github.com/chrisATautomatemystuff/57c79632c1682f32af826affa6fcf42c>



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The End

Wm:smug

<https://tiny.cc/MISCUG-PADT>