



Chocolatey

The **package manager** for Windows

Software Automation for Windows

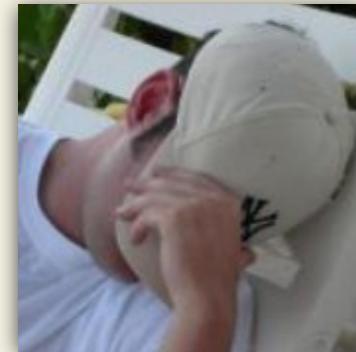


Rob Reynolds

Founder

Chocolatey Software

@ferventcoder



Gary Ewan Park

Senior Software Engineer

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@gep13





Rob Reynolds

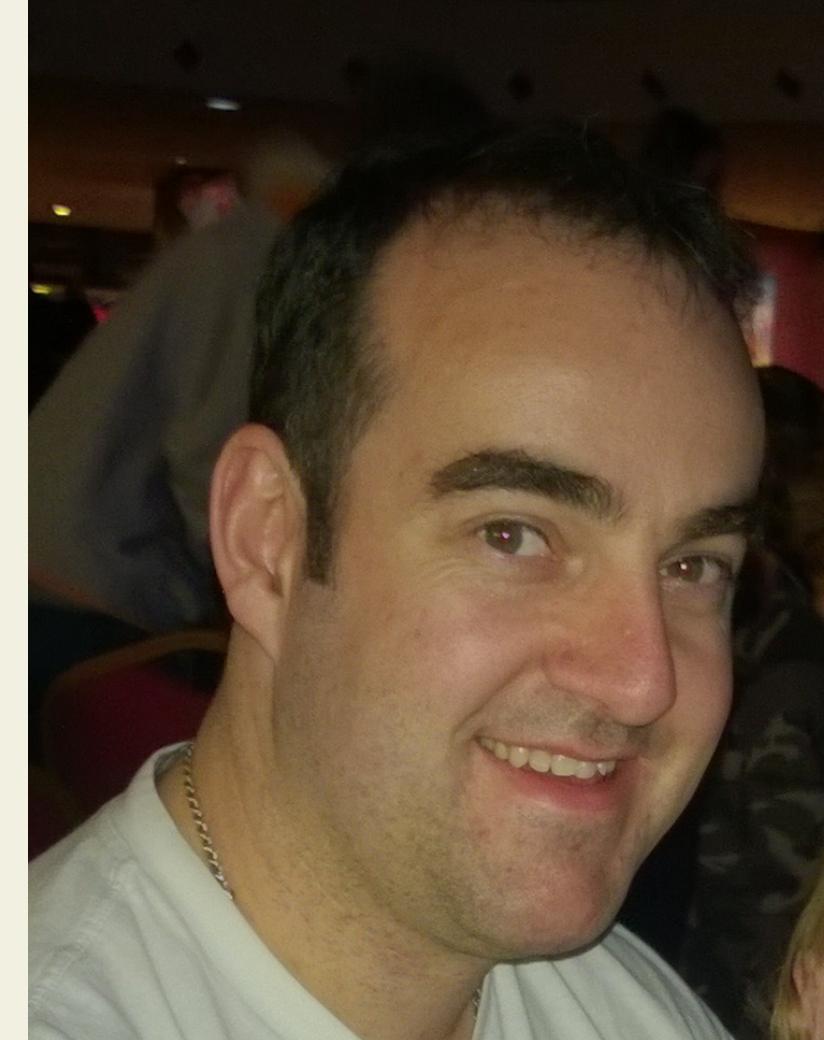
- Creator and Founder of Chocolatey 
- Enjoys long walks on the beach and designing solutions that make hard things easy
- Co-wrote infrastructure framework known as the Chuck Norris Framework
- Over 10 years experience in infrastructure automation
- Obsesses over user experience
- Microsoft MVP for both Cloud and Datacenter Management and Visual Studio and Development Technologies





Gary Ewan Park

- Senior Software Engineer 
- Chocolatey GUI product owner
- Loves Cake, sometimes Chocolatey Cake 
- Developing with .NET for nearly 10 years
- Founding member of Aberdeen Developers .NET User Group
- Microsoft MVP for Visual Studio and Development Technologies





Agenda

- The Story of Windows Automation
- Windows Software Ecosystem
- Chocolatey
- Chocolatey + DSC
- Sneak Peeks!





**Let's talk about a story...
possibly your story**





The Story of Modern Automation for Windows







You probably use or have
used traditional tools





Traditional Tools

- Manual Configuration
- Golden Images
- Endpoint management tools
- Not necessarily bad, just are harder to fit into modern automation approaches





Modern Automation

- Feature-Rich
- Infrastructure as Code (IaC)
- Source Control
- Testable Infrastructure
- Reporting
- Centralized Management





PowerShell DSC

- Microsoft
- Building on PowerShell
- Desired State
- Modern Approaches
- Framework - couple it with full Configuration Management Platforms like Puppet / Chef / Ansible when appropriate





So you modernized your Windows automation





DevOps == Rainbows and Unicorns

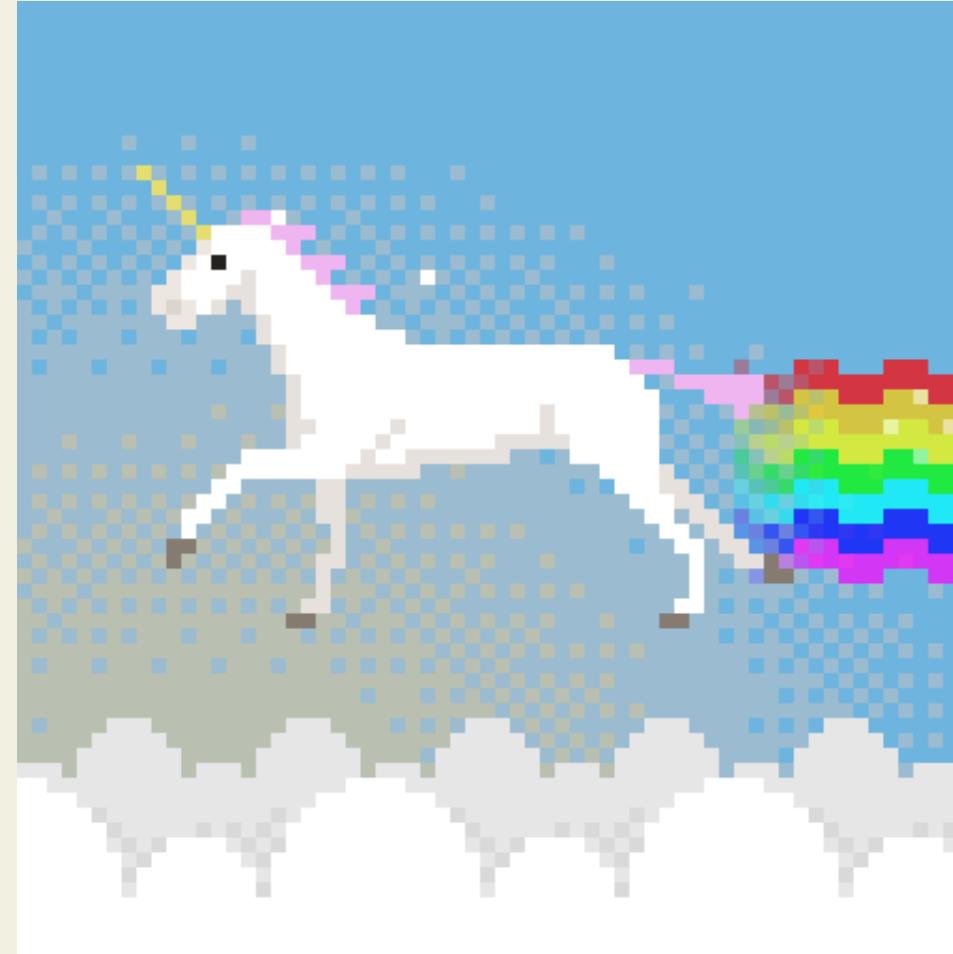
“Umm...”

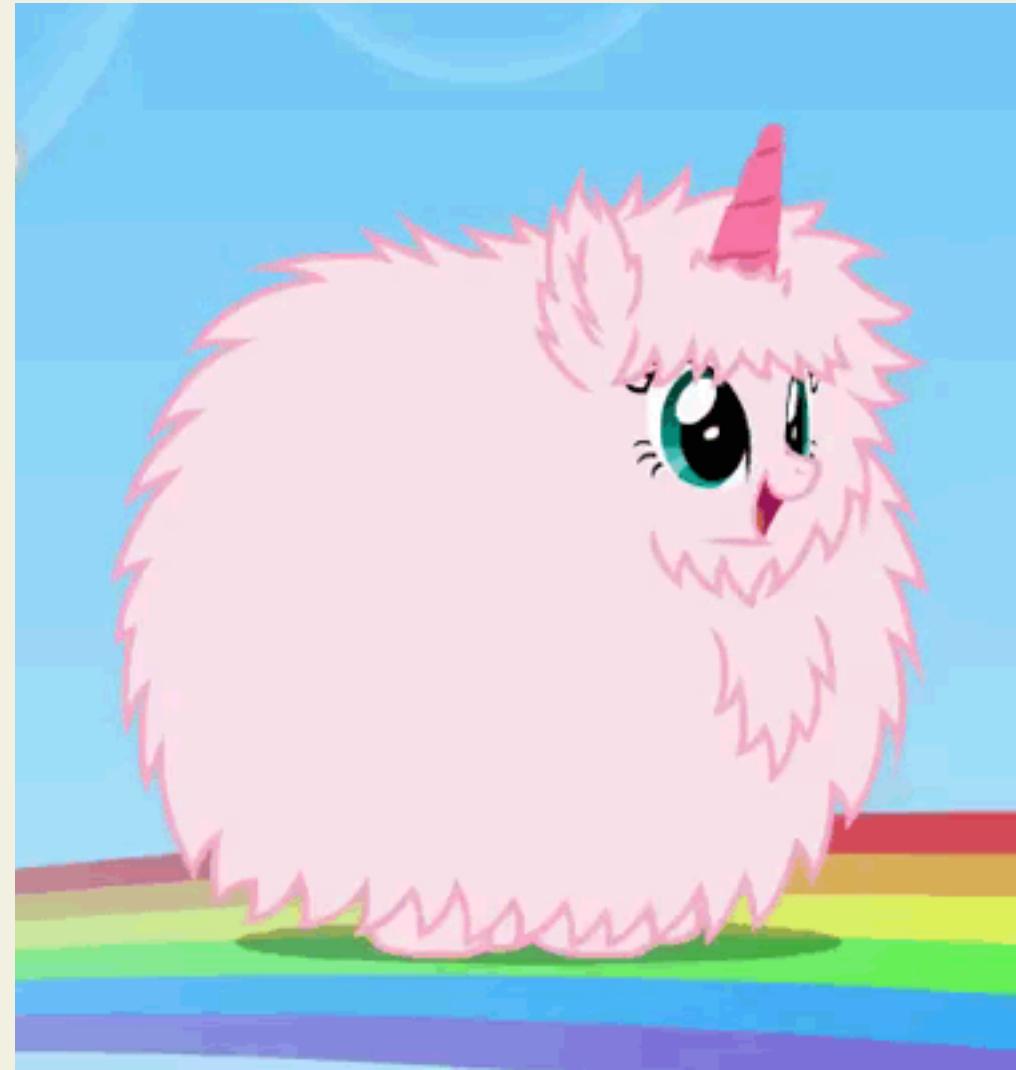


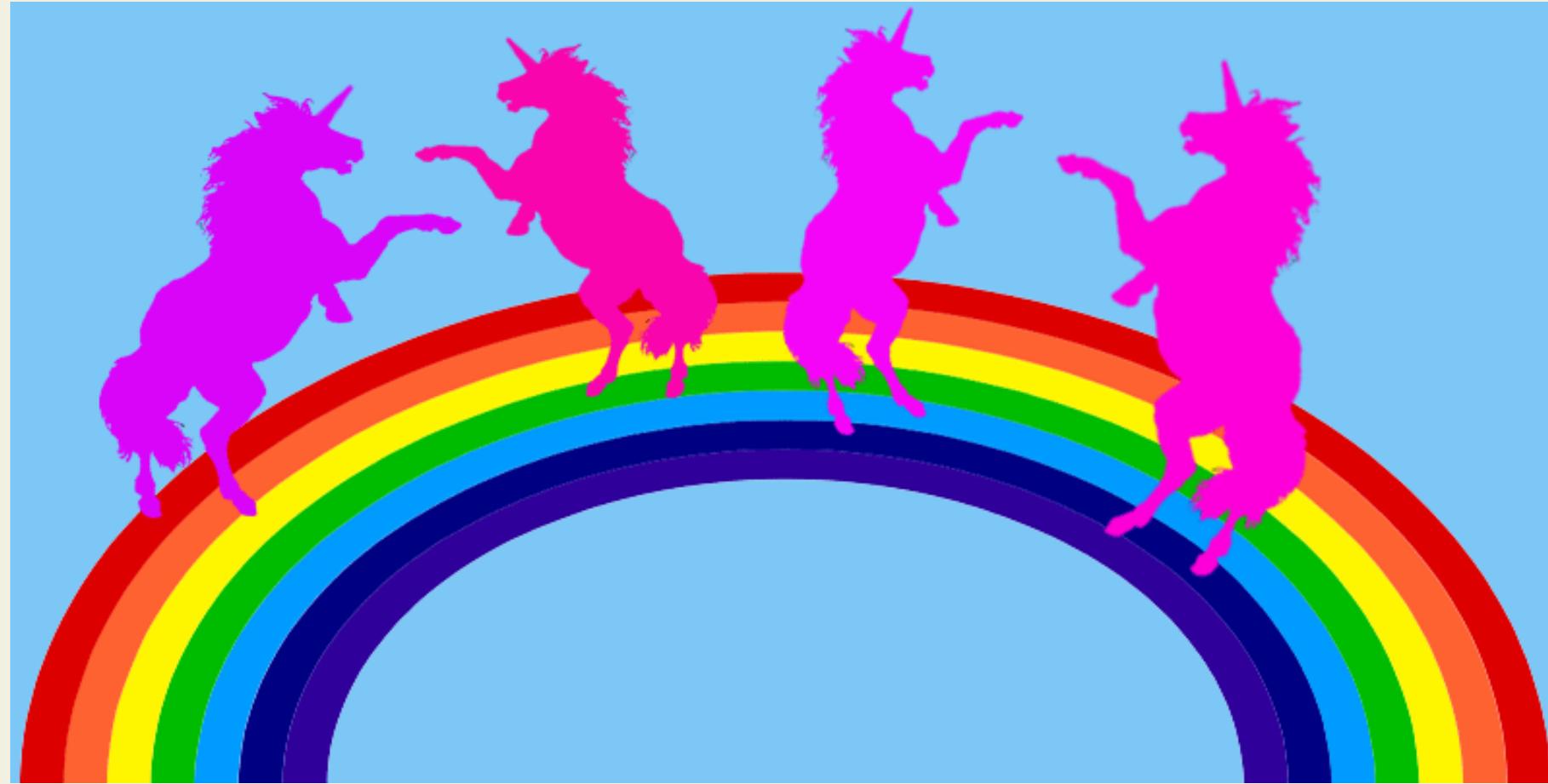
Rainbows and Unicorns

“Just go with it...”









Something was not quite right...





Configuration Management alone is missing something





Software Management / Package Management is necessary for great Configuration Management





Software management may account for 50-90% of your automation



Windows Software Ecosystem

- Over 20 installer formats and thousands of installers in the wild
- Zips and other archive formats
- Software installers are messy
- Deploy internal/3rd party software using same approach?
- It's like the Wild West





PowerShell DSC - Package Resource

- You may have used Package Resource
- Finding the PackageID (MSI Product Code GUID)
- Non-MSI?
- Upgrades?





**“Fortunately there is a
better way”**



What is Chocolatey?

- Software Management
- PowerShell
- Fancy zip files = “packages”
- Packages are independent software deployment artifacts
- Takes your deployment scripts to the next level





So you knew about Chocolatey





But does it work well in
organizational sense?



Recognize this?





That's an iceberg





Well, obviously - what does it represent though?





Here's a hint

The screenshot shows the Chocolatey.org website at https://chocolatey.org/packages. The page displays two community-maintained packages:

- Chocolatey 0.10.5** by ferventcoder (gep13) - A package manager for Windows. It has 54,330,514 downloads. A terminal window shows the command "C:\> choco install chocolatey".
- Flash Player Plugin 25.0.0.127** by William chocolatey purity - An Adobe Flash Player plugin. It has 5,053,547 downloads. A terminal window shows the command "C:\> choco install flashplayerplugin".

At the top of the page, there is a notice: "Notices: This section not yet converted to new layout. Download stats are rolling back out." The navigation bar includes links for Home, About, Compare, Packages, Upload, Docs, Forum*, Shop*, Account, and Log Off. A search bar is also present.



Understanding Chocolatey and Packaging

Community Package Repository

- Public domain
- Distribution rights
- Has Internet dependencies - failure point
- Possible trust issues for organizations

Organizational Use

- Internal / Offline
- Many thousands of packages larger
- Reliability

Do not cross this line to external / internet

WARNING: Objects in mirror may be larger than they appear



**Let's take a step back and
evaluate what's possible**





Chocolatey - Sane Software Management

- Easily manage the software lifecycle
- Universal format for managing all aspects of Windows software are 1st class citizens (native installers, scripts, zips, binaries)
- PowerShell module simplifies work
- Packages are independent building blocks
- Integrates with configuration management and RMM tools
- Business friendly features





Chocolatey - The Approach

7+ years - proven technology

- Single, unifying interface - control the chaos
- Decentralized - multiple places to get packages, including internal
- PowerShell
- Flexible
- Secure
- Reliable





Chocolatey - The Approach (Sum it up!)

With Chocolatey you can write a software deployment once, deploy it everywhere with everything, then manage and track that software over time (even without installers).





FOSS vs Chocolatey for Business (C4B)



- **Chocolatey open source (FOSS) == package management**
 - Works well in organizational use
- **C4B == complete software management**
 - Smoother experience
 - Builds on top of FOSS
 - Better system integration, endpoint management, etc
 - Better visual interfaces (GUIs)
 - Features geared specifically towards organizational use





Sweet Features





Smart Installs / Smarter Upgrades

```
Administrator: Windows PowerShell
PS C:\packages> choco install git.install --source . -y
Chocolatey v0.9.10-beta1-426-g3c8b16e Business
Installing the following packages:
git.install
By installing you accept licenses for the packages.

git.install v2.8.4
Loading 'chocolatey.licensed' extension.
Copying git.install
  from 'C:\ProgramData\chocolatey\lib\git.install\tools\files\Git-2.8.4-64-bit.exe'
Virus checking skipped/turned off. Not verifying 'Git-2.8.4-64-bit.exe'
Installing Git-2.8.4-64-bit.exe...

Git-2.8.4-64-bit.exe has been installed.
WARNING: Git installed - You may need to close and reopen your shell for PATH changes to take effect.
Environment Vars (like PATH) have changed. Close/reopen your shell to see the changes (or in powershell/cmd.exe just type `refreshenv`).
The install of git.install was successful.
Software installed to 'C:\Program Files\Git\' ←

Chocolatey installed 1/1 package(s). 0 package(s) failed.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\packages> git
git : The term 'git' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ git
+ ~~~
  + CategoryInfo          : ObjectNotFound: (git:String) [], CommandNotFoundException
  + FullyQualifiedErrorId : CommandNotFoundException

PS C:\packages> refreshenv ←
Refreshing environment variables from the registry...
Finished
PS C:\packages> git
usage: git [--version] [--help] [-c <path>] [-c name=value]
           [--exec-path=<path>] [--html-path] [--man-path] [--info-path]
```

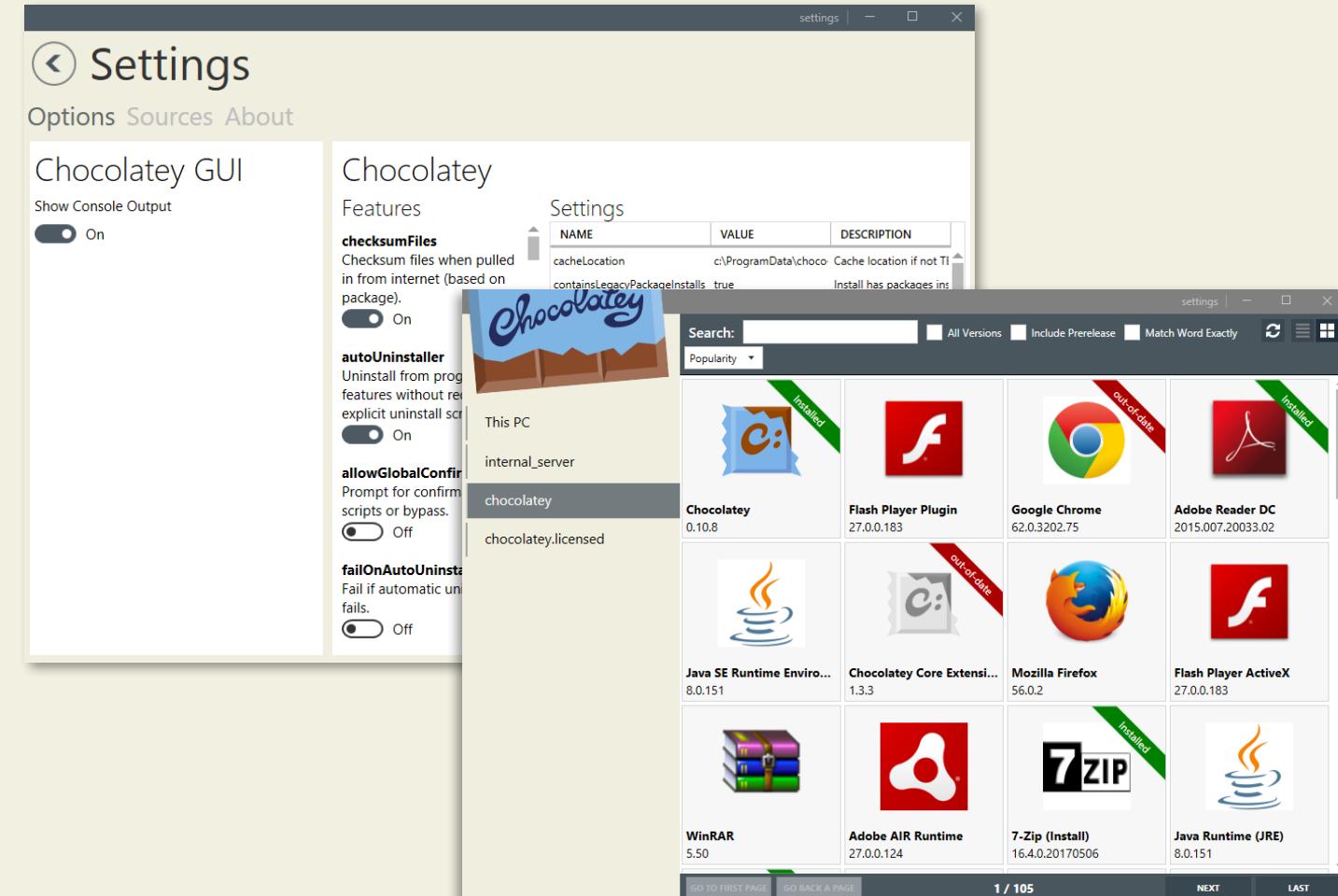
- Track software installation in Programs & Features to map packages to system installs
- Track environment variable changes
- Leave out guesswork by reporting on software installation location
- Upgrades - Use XML Document Transform (XDT) for .NET configuration file changes
- Exclusive to Chocolatey - Use new tools / commands without closing / re-opening your shell for environment changes to take effect





Graphical Interface - ChocolateyGUI

- Configure Chocolatey
- Manage software installations
- Great for Desktop users
- Great for Self-Service Management (C4B)



Automatic Uninstallation

```
PS C:\packages> choco uninstall 1password -y
Chocolatey v0.9.10-beta1-422-g335bc01 Business
Uninstalling the following packages:
1password

1password v4.6.0.598
Running auto uninstaller...
Auto uninstaller has successfully uninstalled 1password.
1password has been successfully uninstalled.

Chocolatey uninstalled 1/1 packages. 0 packages failed.
See the log for details (C:\ProgramData\chocolatey\logs\choco.log)
```

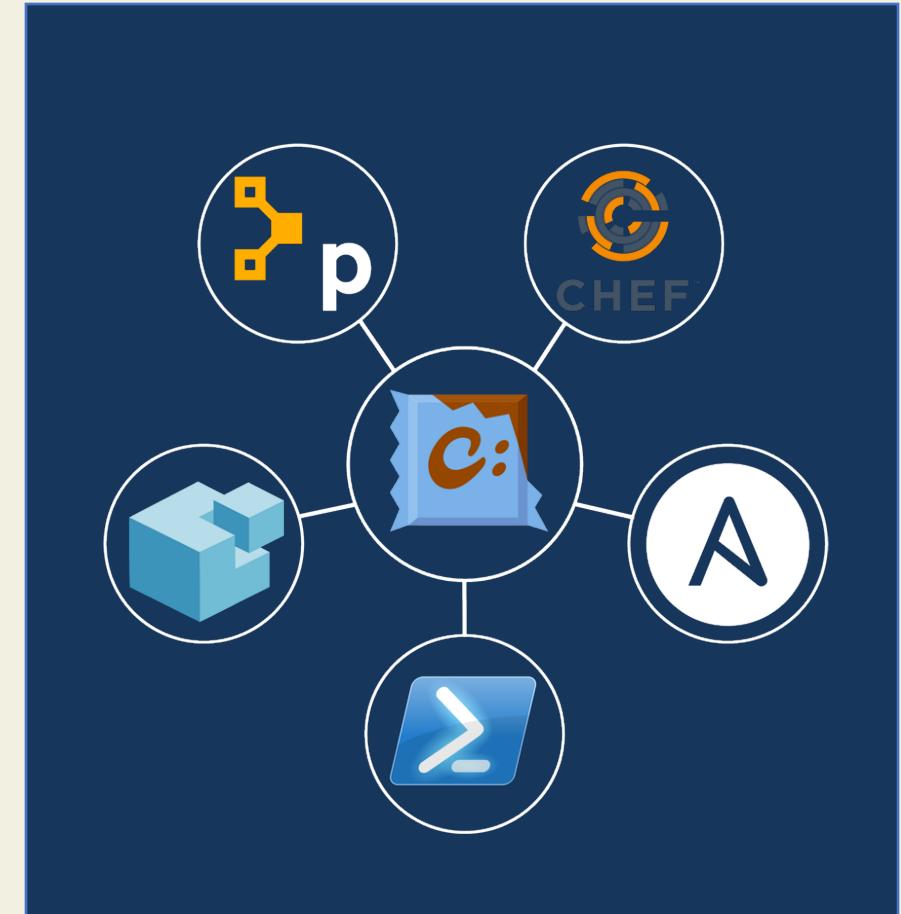
- Exclusive to Chocolatey - Automatically uninstall 80-90% of installations without uninstall script
- Installer packages manage native installations into Programs and Features
- AutoUninstaller reduces time by not developing and managing uninstall scripts for installer packages
- Up to 95% effective in licensed editions thanks to enhancements and Package Synchronizer





Integrates with Everything

- <https://chocolatey.org/docs/features-infrastructure-automation>
- Puppet
- Chef (built-in), cookbook
- PowerShell DSC
- Ansible
- Saltstack
- Octopus Deploy
- Boxstarter
- SCCM
- RMM, or really anything that can run scripts





Reporting / Auditing





Inventory - Comprehensive Software Audit

```
PS C:\> choco list -lo --include-programs
1password 4.6.0.603
chocolatey 0.9.10.3
chocolatey.extension 1.4.0
chocolatey.server 0.1.1
DotNet4.0 4.0.30319.20141222
git 2.7.0.0
Googlechrome 51.0.2704.106
roundhouse 0.8.5.0
8 packages installed.

7-zip 9.22 (x64 edition)|9.22.00.0
Bitvise SSH Server 5.60 (remove only)|
ChocolateyGUI 0.13.2.0|0.13.2.0
Launchy 2.5|
Notepad++|6.4.2
Oracle VM VirtualBox Guest Additions 4.3.12|4.3.12.0
Puppet (64-bit)|3.8.3
7 applications not managed with chocolatey.
```

- Exclusive to Chocolatey - Visibility beyond just the software 'installed' in Programs & Features
- Track versions of zip archives & own internal software that is not visible in system installation.
- Get a complete view of your systems. Chocolatey reports applications in systems not directly under its management.
- Package Audit (C4B) adds who, when, and history

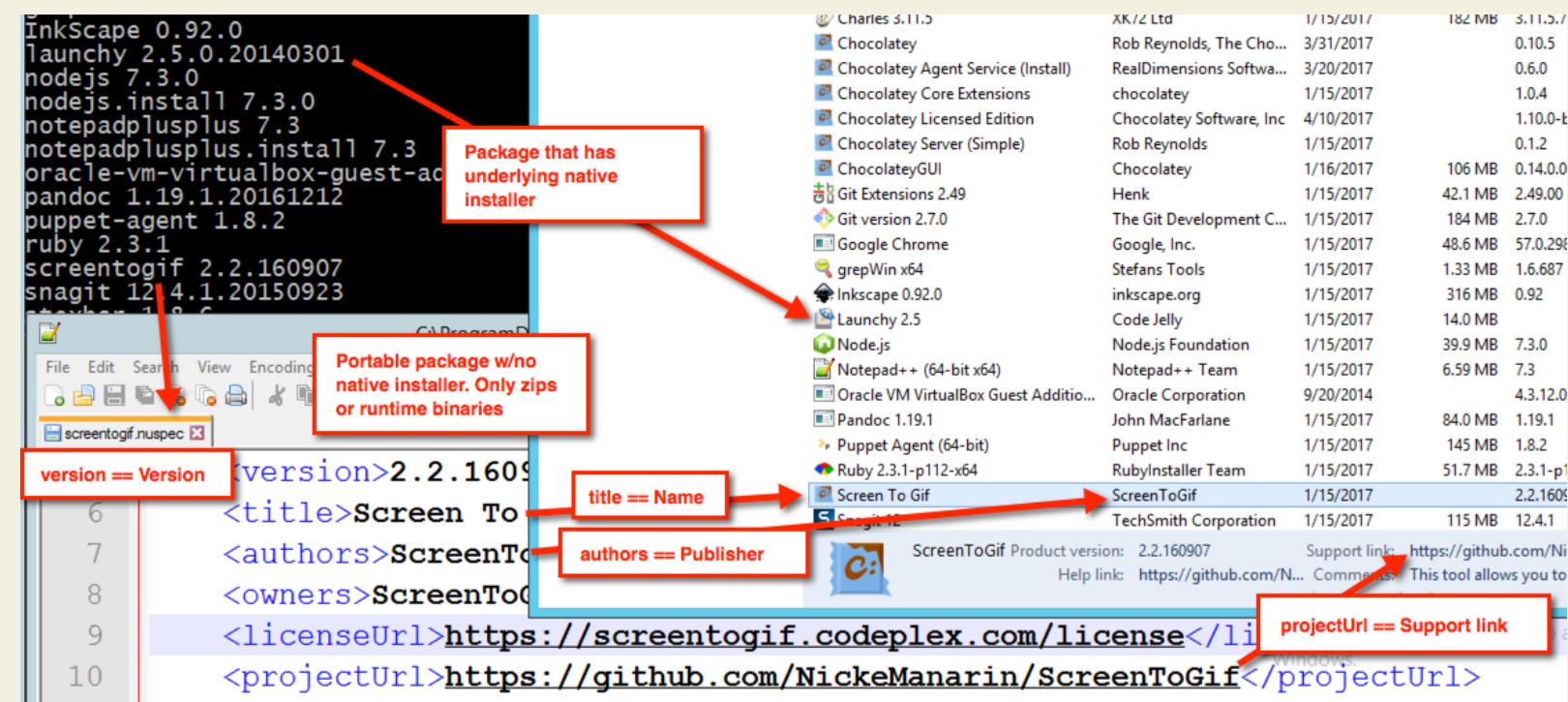
```
PS C:\packages\createpackages> choco list -lo --audit -r
1password|4.6.0.598|User:vagrant|Domain:WIN2012R2X64|Original User:vagrant|Install Date:2017-07-09 16:53:17Z
7zip|16.02.0.20160811
baretail|3.50.0.20120226
```





Package Synchronizer (C4B) - All Packages in Programs and Features

- Programs and Features represents only 50-80% of the software on a machine
- Chocolatey brings managed entries for non-installer packages
- Supporting legacy inventory reporting systems is now a snap
- Do not need to build MSIs / Installers for internal use just to support legacy reporting





Logging - Detailed Reporting

```
Open Highlighting Follow Tail ANSI C:\ProgramData\chocolatey\logs\chocolatey.log (5.9 MB)
0 2017-06-09 21:55:52,794 2236 [DEBUG] - Configured chocolatey.infrastructure.logging.log4net.config.xml from assembly choco, Version 0.10.7.0, Cultureneutral, PublicKeyToken=8d4d09c1f8e300a0
0 2017-06-09 21:55:52,849 2236 [DEBUG] - XmlConfiguration is now operational
0 2017-06-09 21:55:52,857 2236 [DEBUG] - Evaluating license file found at 'C:\ProgramData\chocolatey\license\chocolatey.license'.
0 2017-06-09 21:55:53,044 2236 [DEBUG] - Loading Licensed Extensions and Commands
0 2017-06-09 21:55:53,083 2236 [INFO ] - =====
0 2017-06-09 21:55:53,411 2236 [INFO ] - Chocolatey v0.10.7 Business
0 2017-06-09 21:55:53,427 2236 [DEBUG] - Chocolatey is running on Windows v 6.3.9600.0
0 2017-06-09 21:55:53,427 2236 [DEBUG] - Attempting to delete file "C:\ProgramData\chocolatey\choco.exe.old".
0 2017-06-09 21:55:53,435 2236 [DEBUG] - Attempting to delete file "C:\ProgramData\chocolatey\choco.exe.old".
0 2017-06-09 21:55:53,443 2236 [DEBUG] - Command line: "C:\ProgramData\chocolatey\choco.exe" upgrade chocolatey.extension -s C:\vagrant\resources\packages -y -f
0 2017-06-09 21:55:53,443 2236 [DEBUG] - Received arguments: upgrade chocolatey.extension -s C:\vagrant\resources\packages -y -f
0 2017-06-09 21:55:53,536 2236 [DEBUG] - RemovePendingPackagesTask is now ready and waiting for PreRunMessage.
0 2017-06-09 21:55:53,544 2236 [DEBUG] - CountdownTask is now ready and waiting for PostRunMessage.
0 2017-06-09 21:55:53,544 2236 [DEBUG] - Terminal services setup not necessary for this session.
0 2017-06-09 21:55:53,552 2236 [DEBUG] - SynchronizeTask is now ready and waiting for PreRunMessage.
0 2017-06-09 21:55:53,552 2236 [DEBUG] - PackagesInProgramsAndFeaturesTask is now ready and waiting for PostRunMessage.
0 2017-06-09 21:55:53,560 2236 [DEBUG] - Sending message 'PreRunMessage' out if there are subscribers...
0 2017-06-09 21:55:53,575 2236 [DEBUG] - [Pending] Removing all pending packages that should not be considered installed...
0 2017-06-09 21:55:53,599 2236 [DEBUG] - [Synchronize] Updating packages with Programs and Features
0 2017-06-09 21:55:53,599 2236 [DEBUG] - [Synchronize] Currently only supports removals. Soon will handle updates.
0 2017-06-09 21:55:53,872 2236 [DEBUG] - 7zip 16.02.0.2016811
0 2017-06-09 21:55:53,880 2236 [DEBUG] - baretail 3.50.0.20120226
0 2017-06-09 21:55:53,950 2236 [DEBUG] - Charles 3.11.5
0 2017-06-09 21:55:53,950 2236 [DEBUG] - chocolatey 0.10.7
0 2017-06-09 21:55:53,950 2236 [DEBUG] - chocolatey-agent 0.6.0
0 2017-06-09 21:55:53,950 2236 [DEBUG] - chocolatey-core.extension 1.0.4
0 2017-06-09 21:55:53,950 2236 [DEBUG] - chocolatey.extension 1.10.0
0 2017-06-09 21:55:53,958 2236 [DEBUG] - chocolatey.server 0.1.2
0 2017-06-09 21:55:53,958 2236 [DEBUG] - ChocolateyGUI 0.14.0-unstable0165
0 2017-06-09 21:55:53,958 2236 [DEBUG] - DotNet4.0 4.0.30319.20141222
0 2017-06-09 21:55:53,958 2236 [DEBUG] - DotNet4.5.2 4.5.2.20140902
0 2017-06-09 21:55:53,958 2236 [DEBUG] - git 2.7.0.0
0 2017-06-09 21:55:53,958 2236 [DEBUG] - gitextensions 2.49
0 2017-06-09 21:55:53,958 2236 [DEBUG] - GoogleChrome 55.0.2883.87
0 2017-06-09 21:55:53,966 2236 [DEBUG] - grepwin 1.6.16
0 2017-06-09 21:55:53,966 2236 [DEBUG] - InkScape 0.92.0
0 2017-06-09 21:55:53,966 2236 [DEBUG] - l10n-en-US 0.5.0.20140901
```

- Log file captures very detailed information - environment and state
- Reduces rollback / recreation necessity





Compliance – Audit Out of Date Software

```
PS C:\> choco outdated
Chocolatey v0.10.8 Business
Outdated Packages
  Output is package name | current version | available version | pinned?
bitvise-ssh-server|5.60.0|7.34|false
chocolatey-agent|0.8.0|0.8.1|false
chocolatey-core.extension|1.3.1|1.3.3|false
chocolatey.extension|1.12.5|1.12.8|false
git|2.7.0.0|2.15.0|false
GoogleChrome|60.0.3112.113|62.0.3202.75|false
nodejs|8.4.0|9.0.0|false
nodejs.install|8.4.0|9.0.0|false
oracle-vm-virtualbox-guest-additions|4.3.12.0|4.3.12.0|false
ruby|2.4.1.2|2.4.2.2|false
screentogif|2.2.160907|2.10|false
VisualStudioCode|1.16.1|1.17.2|false

Chocolatey has determined 11 package(s) are outdated.
```

- choco outdated
- Comprehensive reporting on available upgrades
- See what will upgrade on next maintenance window
- Pinned items won't upgrade until pin is remove





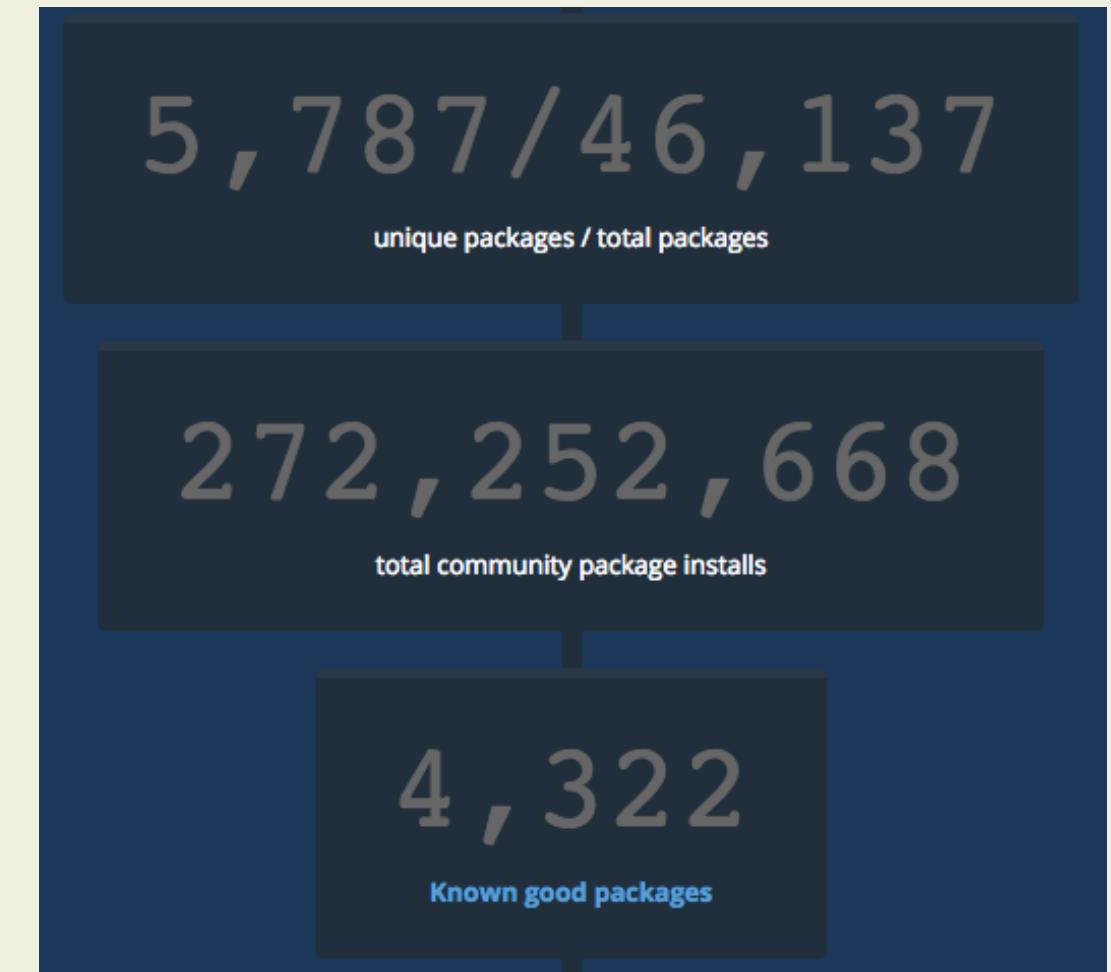
Package Repository





Community Package Repository

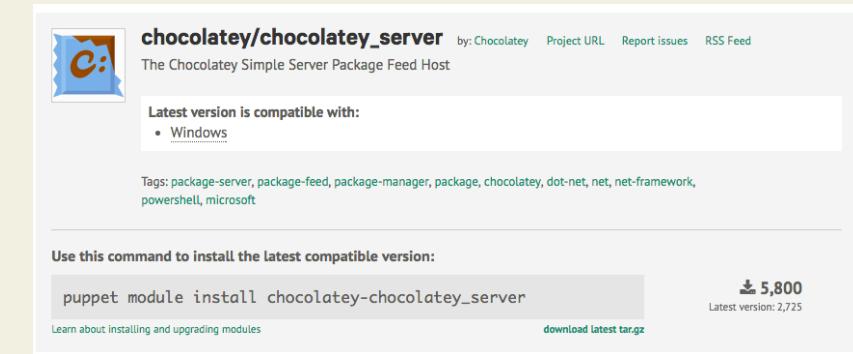
- <https://chocolatey.org/packages>
- Community Feed / Community Maintained
- Moderated as of October 2014
- Everything goes through VirusTotal
- **Organizations Should Avoid**
 - **Not Fully Reliable - public repo means subject to distribution rights (download CDN cache feature helps)**
 - **Trust and Control**





Hosting Your Own Package Server

- <https://chocolatey.org/docs/how-to-host-feed>
- Artifactory Pro  (cross-platform)
- Sonatype Nexus  (cross-platform)
- ProGet  / MyGet  (hosted)
- Chocolatey.Server
- NuGet.Server / NuGet Gallery proper 
- Visual Studio Team Services (v2 endpoints) / TFS
- File Share (DFS, CIFS, SMB) / SCCM Distribution points



The screenshot shows a package page for 'chocolatey/chocolatey_server'. At the top, it says 'The Chocolatey Simple Server Package Feed Host'. Below that, it lists 'Latest version is compatible with: Windows'. Underneath, there's a section for 'Tags' including 'package-server', 'package-feed', 'package-manager', 'package', 'chocolatey', 'dot-net', 'net', 'net-framework', 'powershell', and 'microsoft'. A command line for installation is provided: 'puppet module install chocolatey-chocolatey_server'. The page also shows a download count of 5,800 and a latest version of 2,725.





Creating Software Deployment “Packages”





Chocolatey Packages

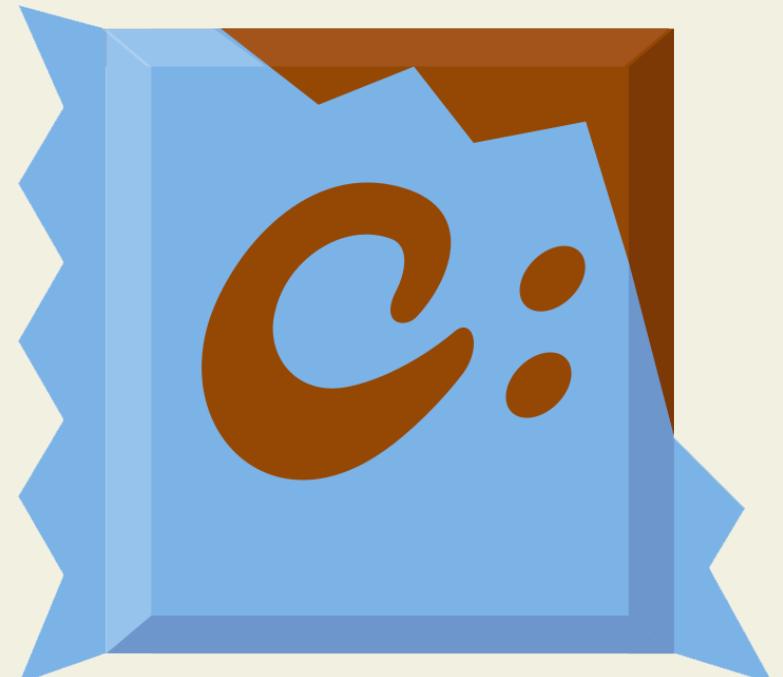
- Terminology: "Package" is nupkg file, "Software" is binaries or installers
- Zip files + Versioning, Dependencies & PowerShell
- Metadata - Software Information / Package Information
- PowerShell - <https://chocolatey.org/docs/helpers-reference>
 - 30+ Built-in functions - complex tasks become 1 liners
 - Handle additional missing installer logic (like add to PATH)
 - Add options missing from installer arguments
- Files - drop in binaries, native installers





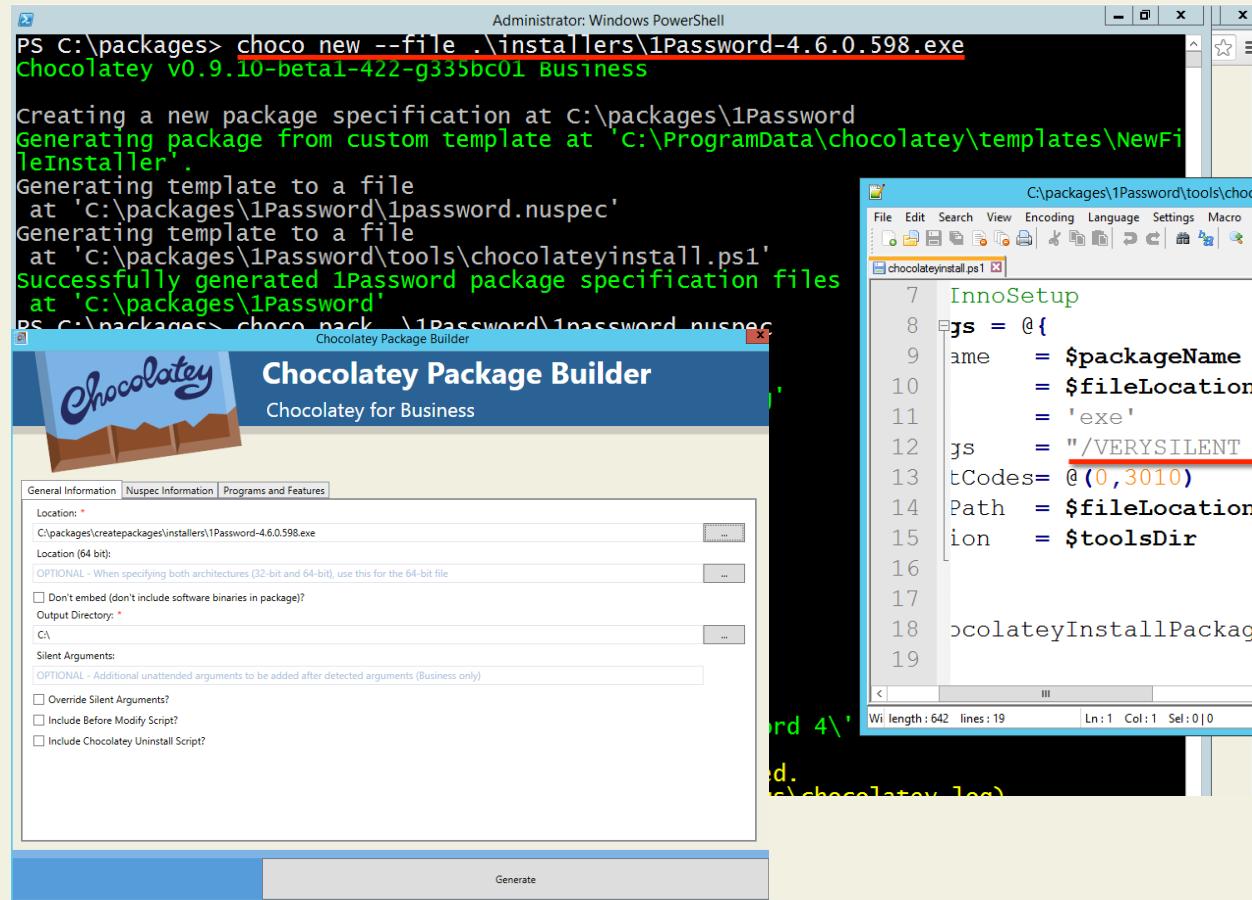
Creating Packages

- <https://chocolatey.org/docs/create-packages>
- choco new
 - Generates package files with most of the work done
 - Create your own packaging templates!





Package Builder (C4B) - “Generate software deployment packages in seconds”



- Package Builder automatically creates high quality packaging from an installer/zip in 5-10 seconds
- Determines everything necessary for silently installing software
- Supports passing urls (and checksums) - downloads files first
- Allows customization
- Supports exe, msi, 7z, zip, msu, and msp files





Package Internalizer (C4B) - “Convert existing packages to 100% offline and reliable”

- Take advantage of existing packages without dependency on the internet
- Downloads existing package and all remote resources
- Recompiles package to use those internal resources
- Option to download and point to other locations
- Ability to host packages on private internal repositories
- Visual Interface coming

```
PS C:\packages> choco download --recompile git.install
Chocolatey v0.9.10-beta1-426-g3c8b16e Business
Downloading an existing package to C:\packages\download

git.install v2.8.4 [Approved]
Found Install-ChocolateyPackage. Inspecting values for remote resources.
Found 'https://github.com/git-for-windows/git/releases/download/v2.8.4.windows-2.8.4-32-bit.exe' for replacement.
Found 'https://github.com/git-for-windows/git/releases/download/v2.8.4.windows-2.8.4-64-bit.exe' for replacement.

Download of 'Git-2.8.4-32-bit.exe' completed.
Replacing 'https://github.com/git-for-windows/git/releases/download/v2.8.4.windows-2.8.4-32-bit.exe' with '$(Split-Path -parent $MyInvocation.MyCommand.Definition.Path)\Git-2.8.4-32-bit.exe'

Download of 'Git-2.8.4-64-bit.exe' completed.
Replacing 'https://github.com/git-for-windows/git/releases/download/v2.8.4.windows-2.8.4-64-bit.exe' with '$(Split-Path -parent $MyInvocation.MyCommand.Definition.Path)\Git-2.8.4-64-bit.exe'
Updating chocolateyInstall.ps1 with local resources.
Recompiling package.

Recompiled package files available at 'C:\packages\download\git.install'
Recompiled nupkg available in 'C:\packages'
```





How does it work?





ReactionGIFS.me



Package Synchronizer (Licensed+)





Package Synchronizer (Licensed) - Auto Sync

```
PS C:\> choco list -lo
Chocolatey v0.9.10-beta1-422-g335bc01 Bu
[Synchronize] Removing 1password package
tey.
chocolatey 0.9.10-beta-20160609
chocolatey.extension 1.4.0
chocolatey.server 0.1.1
DotNet4.0 4.0.30319.20141222
git 2.7.0.0
git.install 2.8.4
GoogleChrome 51.0.2704.84
Launchy 2.5.0.20140301
roundhouse 0.8.5.0
9 packages installed.
PS C:\>
```

- Chocolatey maintains state based on packages. System state can be manipulated outside of Chocolatey
- Any Chocolatey command will trigger synchronization in licensed editions of Chocolatey
- Package Synchronizer syncs with manual software removal
- Syncs w/software that automatically upgrades, such as Chrome





Package Synchronizer (C4B) - Choco Sync Command

```
PS C:\> choco sync -r
Package Id|Display Name|Version|New Package
7zip|7-Zip 16.02 (x64)|16.2|False
oracle-vm-virtualbox-guest-additions|Oracle V
12.0|True
bitvise-ssh-server|Bitvise SSH Server 5.60 (r
PS C:\>
```

- Brings all software in Programs and Features under Chocolatey management
- Generates packaging and baselines to Chocolatey install
- Provides packaging code to take back to source control





Package Reducer (Licensed)

- Reduce Chocolatey space usage down automatically
- Reduction on install/upgrade
- choco optimize to clean existing

```
Space reduced for 'snagit': 87.33 MB.  
Optimizing 'stexbar'  
Reducing package size for 'stexbar'...  
Reducing nupkg file size ('stexbar').  
Reducing extracted archives and installers ('stexbar')  
Reducing any cached archives / installers ('stexbar')  
Removing 'c:\ProgramData\choco-cache\stexbar\1.8.6\St  
  
Space reduced for 'stexbar': 376.09 KB.  
Optimizing 'virustotaluploader'  
Reducing package size for 'virustotaluploader'...  
Reducing nupkg file size ('virustotaluploader').  
Reducing extracted archives and installers ('virustota  
Reducing any cached archives / installers ('virustota  
Removing 'c:\ProgramData\choco-cache\virustotaluploade  
xe' ('virustotaluploader')).  
Space reduced for 'virustotaluploader': 139.92 KB.  
Optimizing 'visualstudiocode'  
Reducing package size for 'visualstudiocode'...  
Reducing nupkg file size ('visualstudiocode').  
Reducing extracted archives and installers ('visualstu  
Reducing any cached archives / installers ('visualstu  
Removing 'c:\ProgramData\choco-cache\visualstudiocode  
('visualstudiocode')).  
Space reduced for 'visualstudiocode': 33.75 MB.  
  
Chocolatey optimized 34 packages.  
Total space reduced overall: 626.48 MB.
```





Other Features

- <https://chocolatey.org/docs/release-notes>
- Internal sources (like ProGet)
- *choco upgrade all* - Windows update for your 3rd party and internal software
- Shimming - like symlinks but better
- Pass install arguments directly through to installer (append or override package args)
- Package Parameters to adjust logic in packages
- Handles locking on upgrades in package folders
- Great reference docs - [& https://chocolatey.org/docs/commands-reference](https://chocolatey.org/docs/commands-reference) & <https://chocolatey.org/docs/helpers-reference>
- Excellent open source support community
- 30+ built-in PowerShell Functions
- Extend functionality with your own PowerShell Modules
- Custom Package Templates
- Can manage anything on Windows





Other Features (C4B)

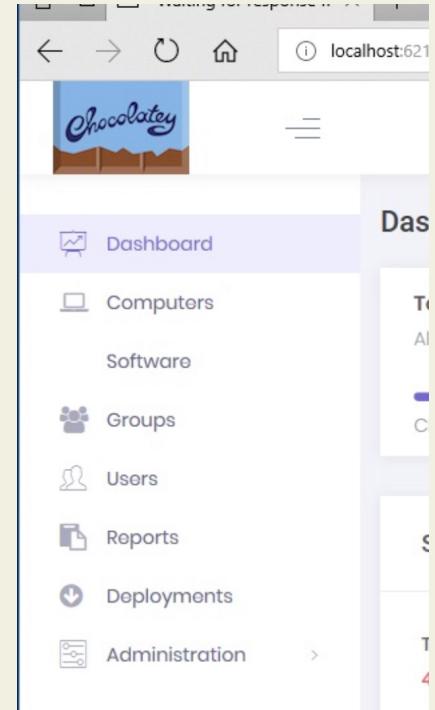
- <https://chocolatey.org/docs/release-notes-licensed>
- Auto-uninstaller more effective - uninstaller detection / Package Synchronizer
- Install/upgrade keeping secrets out of logs
- Ubiquitous Install Directory Option
- More built-in PowerShell functions
- Uninstall non-Chocolatey managed software
- Direct Installer - install directly from exe/msi
- Package Throttle
- Runtime malware protection
- CDN Cache
- Professional Packaging Services
- Amazing expert support team - <https://chocolatey.org/support>





Chocolatey Roadmap

- <https://chocolatey.org/docs/roadmap>
- Central Management UI (C4B)
- Choco Deploy CLI (C4B)
- WSA / Windows Nano Support
- PowerShell
PackageManagement Official Provider
- Package Enhancements
- Pack Validation
- Virtual packages
- GPG Signing
- Package Grid (C4B)
- Deferred Installer (C4B)
- Possible support on other platforms





Where does DSC come in?





cChoco DSC Resource

- Manages Chocolatey installation
- Manages Choco sources and configuration
- Manages packages
- <https://github.com/PowerShellOrg/cChoco>
- <https://www.powershellgallery.com/packages/cChoco/2.3.0.0>

PowerShell Gallery

Home Items Publish Statistics Documentation Support Search

 cChoco 2.3.0.0

Module with DSC Resources for using Chocolatey <http://chocolatey.org/>

Inspect
`PS> Save-Module -Name cChoco -Path <path>`

Install
`PS> Install-Module -Name cChoco`

Deploy
 Deploy to Azure Automation

14,852 Downloads

5,614 Downloads of 2.3.0.0

2016-12-02





cChocoInstaller

- Manages Chocolatey installation
- Manage install location
- Works offline, specify a script to run locally

```
.. cChocoInstaller.ChocoInstall
...
# default installation location ... allows
# Chocolatey to apply default security
# settings
InstallDir = "$env:ProgramData\chocolatey"
ChocoInstallScriptUrl = 'file:///C:/InstallChoco.ps1'
...
```





cChocoSource

- Manage available package sources
- Add or remove, does not disable
- Add credentials
- Add priorities for sources

```
...cChocoSource·DefaultChocoSource·{  
...| Ensure ·····=· 'Absent'  
...| Name ·····=· 'chocolatey'  
...| Source ·····=· 'https://chocolatey.org/api/v2/'  
...}  
  
...cChocoSource·InternalChocoSource·{  
...| Ensure ·····=· 'Present'  
...| Name ·····=· 'internal_server'  
...| Source ·····=· 'http://localhost/chocolatey'  
...| #Credentials ···=· add·credentials  
...| Priority ···=· 1  
...}
```





cChocoFeature

- Manage available Chocolatey features
- cChoco vNext

```
-cChocoFeature·FipsComplianceChocoFeature·{  
    ···Ensure···=·'Present'  
    ···FeatureName··=·'useFipsCompliantChecksums'  
}  
  
-cChocoFeature·ElevatedWarningsChocoFeature·{  
    ···Ensure···=·'Absent'  
    ···FeatureName··=·'showNonElevatedWarnings'  
}  
  
-cChocoFeature·RememberedArgsChocoFeature·{  
    ···Ensure···=·'Present'  
    ···FeatureName··=·'useRememberedArgumentsForUpgrades'  
}
```

T





cChocoPackageInstall

- Ensure software package installation
- Optional params, chocoParams, Version, Source, and AutoUpgrade
- Allows customizing complete choco call

```
-cChocoPackageInstaller::_Name_Package -{  
    .Ensure ..... = 'Present|Absent'  
    .Name ..... = 'packageId'  
    .Params ..... = 'package-parameters'  
    .chocoParams ..= 'Params-for-choco.exe'  
    .Version ..... = 'package-version'  
    .Source ..... = 'location'  
    .AutoUpgrade ..= $False  
}
```





cChoco - Get Involved

- If you are looking for a place to contribute, this is a good place
- <https://github.com/chocolatey/cchoco>

Branch	Status
master	master - OK
development	development - OK

Community Chocolatey DSC Resource

[chat on gitter](#)

This resource is aimed at getting and installing packages from the choco gallery.

The resource takes the name of the package and will then install that package.

See [ExampleConfig.ps1](#) for example usage.

See list of packages here: <https://chocolatey.org/packages>





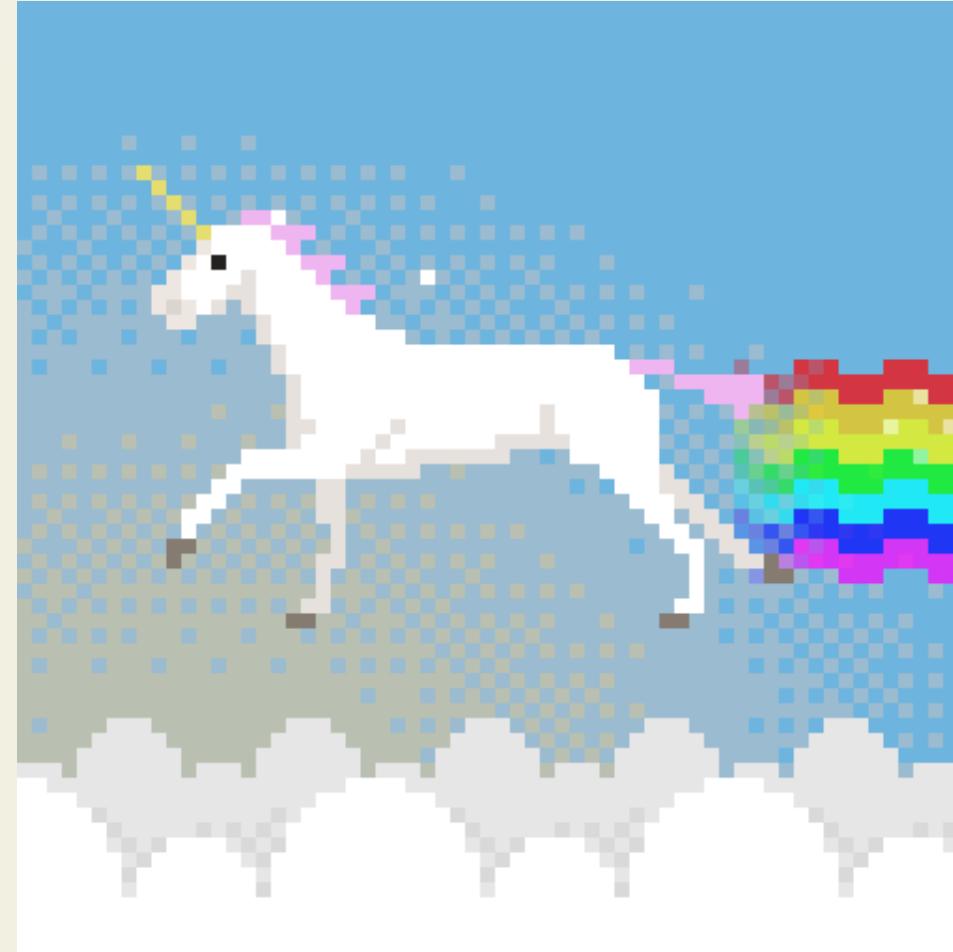
Demo





This is you







This is you on Chocolatey

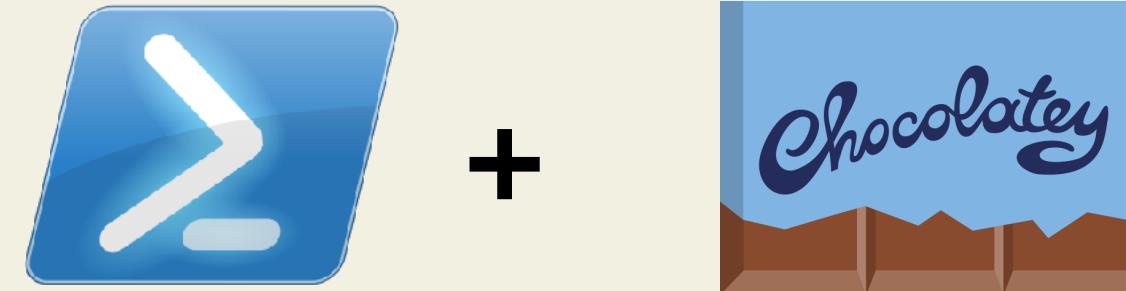






Any Questions?





- Rob (@ferventcoder)
 - rob at chocolatey dot io
- Gary (@gep13)
 - gary at chocolatey dot io



Evaluate Chocolatey for Business in your environment - discounts available conference attendees - reach out at <https://chocolatey.org/contact> for details

