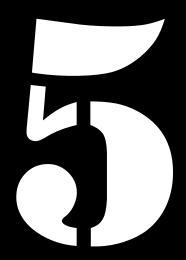
PowerShell Conference Europe 2019
Hannover, Germany

June 4-7, 2019

Click Free Application Deployment with the Magic Of PowerShell and Chocolatey

PAUL BROADWITH

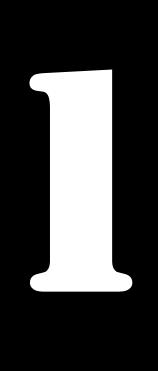




Video operator, did you start the recording?







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Click Free Application Deployment with the Magic Of PowerShell and Chocolatey

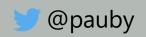
PAUL BROADWITH



This Session

- Understand what Chocolatey is;
- Understand the difference between packages and installers;
- Be able to create a package;
- Learn how to work with installers that won't install silently;
- Learn to use Pester to test your packages;
- Learn what the Chocolatey Community Repository;
- Learn how to keep your package continually updated;



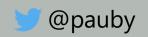






What Is Chocolatey?





History of Package Managers

Linux has:

```
apt install -y powershell
yum install -y powershell
pacman -Sy powershell
```

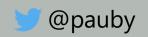
Mac has:

brew cask install powershell

Windows has:

Click Next, Click Next, Click Next





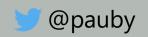
What is Chocolatey?

- Chocolatey is a package manager for Windows
- Created by Rob Reynolds (@ferventcoder)
- First version released on 23 March 2011
- Now Windows has:

choco install powershell-core -y







Fundamental Tenet of Chocolatey

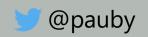


Chocolatey Manages Packages

Packages Manage Installers

Chocolatey Does Not Manage Installers



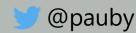


Chocolatey Prerequisites

- Windows 7+ / Server 2003+
- Windows PowerShell 2 / .NET 4*
- Not Nano ⊗
 - (see GitHub issue #1371 https://github.com/chocolatey/choco/issues/1371)

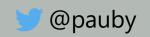


* Some functionality requires .NET 4.5



What Is A Chocolatey Package?





What Is A Chocolatey Package?

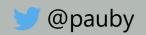
- Special Zip file with a .nupkg extension;
- Commonly called 'nupkeg' or 'noo package' due to file extension;
- It contains metadata, PowerShell scripts and sometimes other files;
- Builds on NuGet package framework while remaining compatible with v2 repositories;











What Can A Chocolatey Package Do?

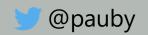
- Chocolatey PowerShell;
- PowerShell scripts install, upgrade and uninstall software;
- Almost anything you can do in PowerShell you can do with a Chocolatey package;

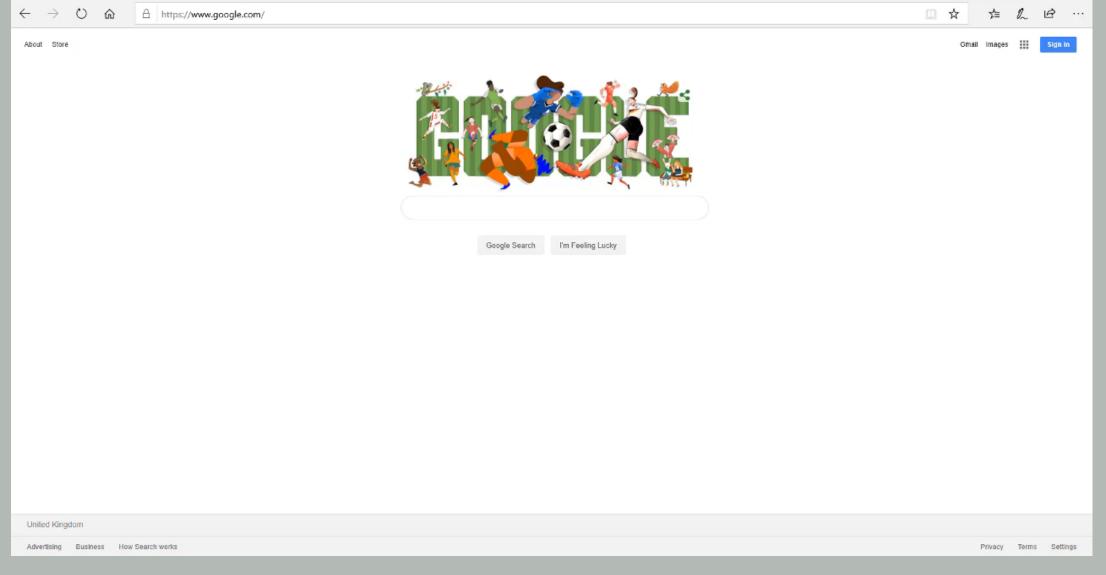




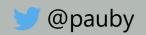






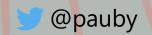






DEMO

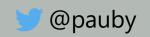
Lets Look At Chocolatey Packages



Chocolatey Community Repository

Everything you wanted to know but were too afraid to ask.

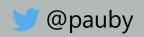




Chocolatey Community Repository

- Repository is at chocolatey.org hosted by Chocolatey;
- Chocolatey uses it as the default chocolatey package source;
- Vast majority of packages created by volunteer maintainers;
- Some vendors maintain their own packages;
- Repository is for the many and not the few use is monitored;
- Licensing is important does not have redistribution rights;

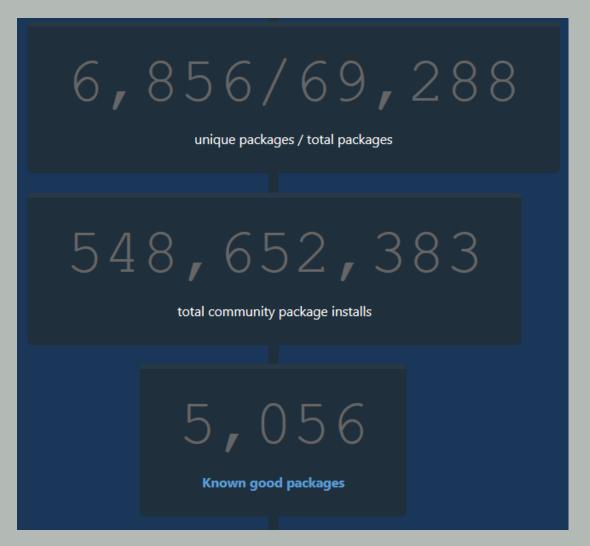




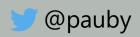
Chocolatey Community Repository

Monthly website stats as of Feb 2019:

- 1.4 B requests;
- 221.7 TB of data;
- 1.1M unique visitors







Excessive Community Repository Use



Rate Limiting – 1 hour block

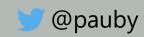
- Downloads of Chocolatey Package: 5
- Downloads of ANY OTHER Package: 20



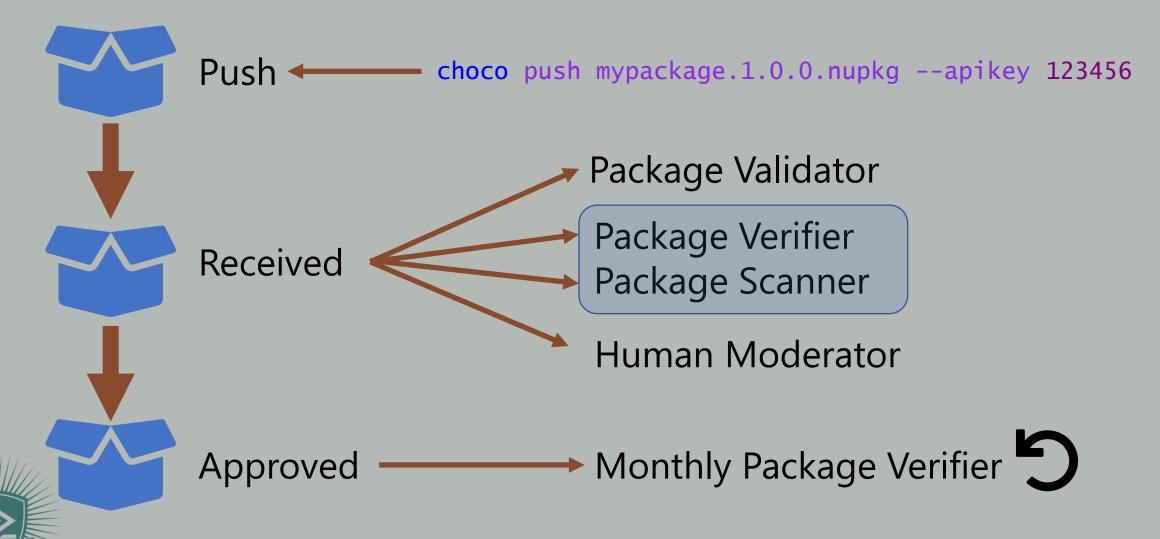
Monthly Download Monitoring – fixed block

 Tens of thousands of package downloads over a specific period





Community Repository Package Checks





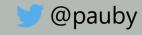
Organizational Community Repository Use

- Not recommended for direct use by organisations;
- Recommend you create package repository with Artifactory, Nexus or ProGet;
- Disable Chocolatey Community Repository:

```
choco source disable -n=chocolatey
```

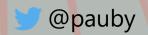
choco source disable -n=chocolatey.licensed





DEMO

Testing Your Packages and Keeping
Them Updated



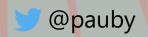
Summary

- We know what Chocolatey is;
- We know how to create a package and how to use the template;
- Learned how to deal with troublesome installers;
- Use Pester to test our packages;
- Learn what happens when you submit a package to the Chocolatey Community Repository;
- What to use to keep your package continually updated;



Slides and demo code

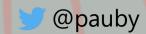
Start-Process -FilePath https://github.com/psconfeu/2019



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