

# PowerShell Southampton User Group

## Chocolatey & PowerShell: A look under the hood

Daniel Krebs

21 May 2019

@GetPSugUK



# Agenda

1. How to create a Chocolatey package?
2. Where are the PowerShell components?
3. Let's dig deeper. Where is the source code?



# Chocolatey PowerShell host

Host Process (choco.exe)

PowerShell Runspace/Session (Thread)

- Automatic session variables
- Environment variables
- Loaded Chocolatey helper module (chocolateyInstaller.psm1)



Demo

Demo



# Demo

- **Chocolatey Install Guide**  
<https://chocolatey.org/install>
- **Chocolatey installs its into the folder**  
C:\ProgramData\chocolatey



# Demo

- **Import the Choco Command Expansion module into your PowerShell session with**

```
Import-Module
```

```
C:\ProgramData\chocolatey\helpers\chocolateyPro  
file.psm1
```



# Demo

- **Create new Chocolatey package directory with .nuspec and example scripts**  
`choco new <package-name>`
- **Create Chocolatey package (nupkg)**  
`choco pack`
- **Install Chocolatey package locally**  
`choco install ./<package-name>.nupkg`



# Demo

- **Uninstall Chocolatey package**  
`choco uninstall <package-name> -y`
- **Upgrade all Chocolatey installed software to latest versions**  
`choco upgrade all -y`
- **Upgrade a specify Chocolatey installed software to latest**  
`choco upgrade <package-name> -y`





# Resources

- **Chocolatey Open-Source Repo**  
<https://github.com/chocolatey/choco>

Above repository includes the C# code I've displayed on screen.

- **ConEmu (Console Emulator supports multiple tabs)**  
`choco install conemu -y`



# Thank you / Questions ?!?



JOIN US ON SLACK 



<https://slofile.com/slack/get-psuguk>