

French PowerShell User Group

2017/03/15

Agenda

- French PowerShell User Group
- Présentation
- Questions
- Conclusion

French PowerShell User Group

- Site <http://frpsug.github.io>
- Twitter [@frpsug](#)
- Chat
 - Pendant les meetings: **Skype**
 - En tout temps: **Slack**, sur le channel **#French**
 - PowerShell.slack.com
 - Enregistrement sur: <http://slack.poshcode.org/>
- Principaux Organisateurs
 - Francois-Xavier Cat (MVP Cloud and Datacenter Management)
 - Fabien Dibot
 - Stephane Van Gulick
 - Micky Balladelli
- Enregistrement du meeting sera par la suite mis sur Youtube.
- Future meetings
- Nous recherchons des presentateurs



A practical approach to a PowerShell release pipeline

(je ne pouvais pas trouver un titre plus long)

Stijn Callebaut

Consultant at Inovativ Belgium



- Github: <http://www.github.com/Stijnc>
- Twitter: @StijnCa

This is a story about a journey....

The need...

But soon...



21-08-2016

Date modified: 8/21/2016 16:15



old

Date modified: 8/21/2016 16:14



Script.old

Type: OLD File

Date modified: 8/21/2016 16:15

Size: 0 bytes



script.ps1

Type: Windows PowerShell Script

Date modified: 8/21/2016 16:16

Size: 0 bytes



Script.ps1.old

Type: OLD File

Date modified: 8/21/2016 16:15

Size: 0 bytes



script_2108-1616.ps1

Type: Windows PowerShell Script

Date modified: 8/21/2016 16:16

Size: 0 bytes



scriptv1.ps1

Type: Windows PowerShell Script

Date modified: 8/21/2016 16:17

Size: 0 bytes

We need something different!

- ... Should be accessible by everybody involved
- ... Should be central
- ... Should be able to tell what changed
- ... Should be able to tell why it changed
- ... Should be able to tell who changed it

Visual Studio Online



Demo:

Our first jump into source\version control

Are we there yet?

Yes

- Source control\ version control

Not quite yet

- Where's quality through testing?
- What about automatic deployment?
-



Testing...

Tests to enforce quality

- Pester (a PowerShell testing framework)
- A bunch of tests
- A way to kick off those tests (build script)

```
1 $here = Split-Path -Parent $MyInvocation.MyCommand.Path
2 $sut = (Split-Path -Leaf $MyInvocation.MyCommand.Path) -replace '\.Tests\.','.'
3 - "$here\$sut"
4
5 Describe "BuildIfChanged" {
6     Context "When there are changes" {
7         Mock Get-Version {return 1.1}
8         Mock Get-NextVersion {return 1.2}
9         Mock Build {} -Verifiable -ParameterFilter {$version -eq 1.2}
10
11         $result = BuildIfChanged
12
13         It "Builds the next version" {
14             Assert-VerifiableMocks
15         }
16         It "Returns the next version number" {
17             $result | Should Be 1.2
18         }
19     }
20     Context "When there are no changes" {
21         Mock Get-Version -MockWith {return 1.1}
22         Mock Get-NextVersion -MockWith {return 1.1}
23         Mock Build {}
24
25         $result = BuildIfChanged
26
27         It "Should not build the next version" {
28             Assert-MockCalled Build -Times 0 -ParameterFilter {$version -eq 1.1}
29         }
30     }
31 }
```

Demo:

Pester in action

Are we there yet?

Yes

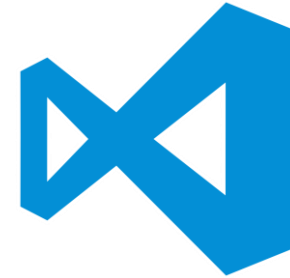
- Source control\ version control
- Testing

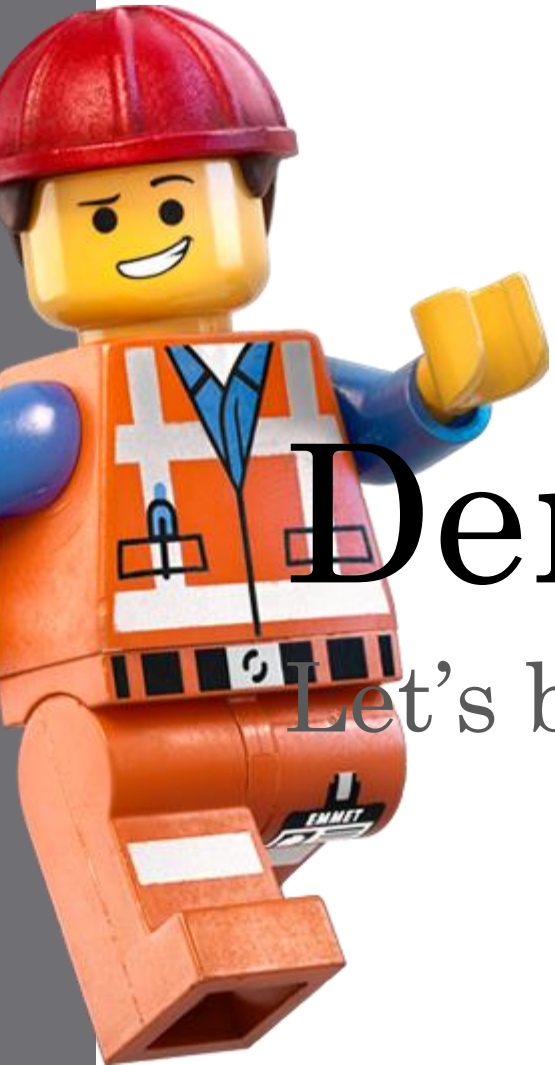
Not quite yet

- Still manual invoke of pester tests
- What about automatic deployment?
- What about ad hoc testing and deployment?

Authoring Tools (visual studio code)

- Cross platform (think PS v6)
- Lightweight
- Integrated terminal
- Includes a debugger
- Git support
- Can be extended through plugins
- Custom tasks
- ...





Demo:

Let's build something

Are we there yet?

Yes

- Source control\ version control
- Automated testing (build environment)
- Ad hoc testing

Not quite yet

- What about automatic deployment?

Release!

Demo:

Let's release our scripts

Are we there yet?

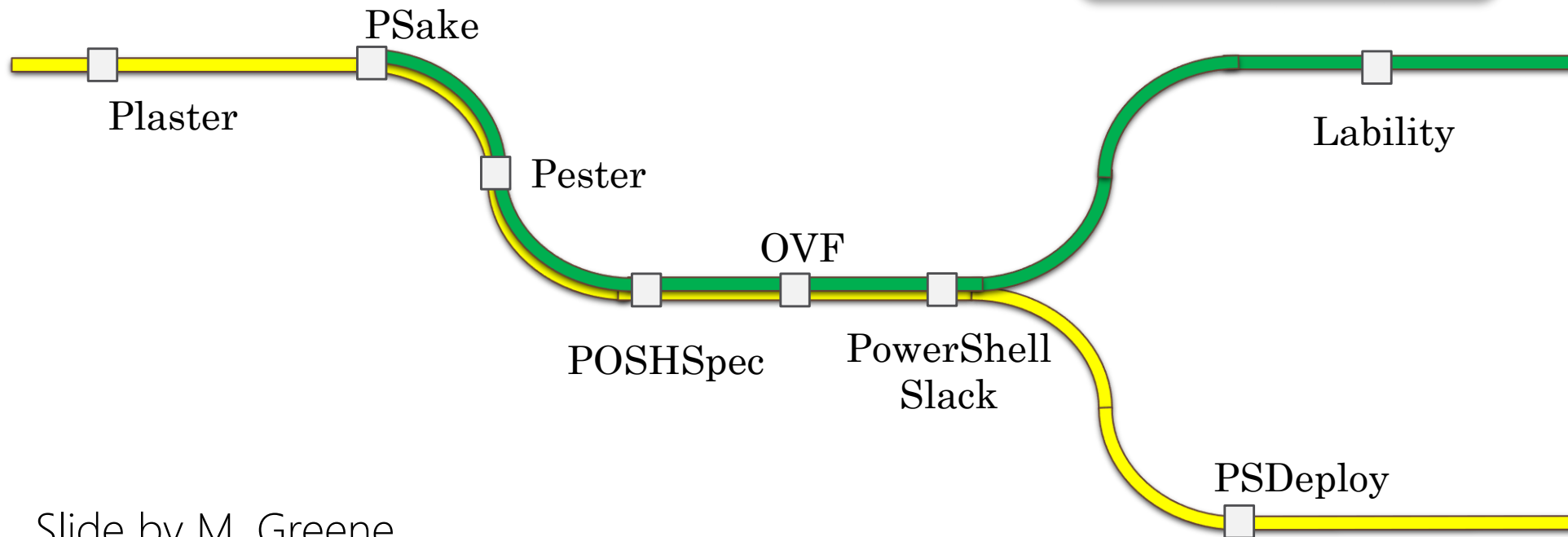
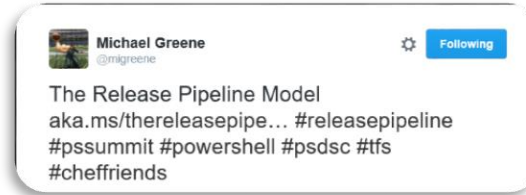
Yes

- Source control\ version control
- Automated testing (build environment and ad hoc)
- Release our script

Not quite yet

-

Community projects



Slide by M. Greene

Useful links

- [The release pipeline by M.Greene and S.Murawski](#)
- [Plaster](#)
- [Psake](#)
- [Pester](#)
- [OVF \(James Truher\)](#)
- [OVF \(PS conference session by **Ravikanth Chaganti**\)](#)
- [PSDeploy](#)

Useful links (cont.)

- [Lablity](#)
- [Pester talks and video's by June Blender](#)
- [PlatyPS](#)
- [GitFlow](#)
- [FrPSUG Pester video by Fabien](#)
- [FrPSUG Atelier sur Git et VSCode by Louis](#)
- Read the docs
-

Questions

Conclusion

Prochain meetings

- **PowerShell sur Linux: pourquoi et comment?**
 - Presentateur: Pascal Sauliere
 - Quand 2017/04/11 à 19h (heure de Paris)
 - S'inscrire: <https://www.meetup.com/fr-FR/FrenchPSUG/events/234089613/>
- **PowerShell et les TUI - Text User interface -**
 - Presentateur: Flavien Michaleczek
 - Quand: 2016/03/15 à 19h (heure de Paris)
 - S'inscrire: <https://www.meetup.com/fr-FR/FrenchPSUG/events/238231500/>

Merci!

- Rester en contact avec la communauté via
 - Chat: Slack, channel #french
 - Twitter @frpsug
- Notre site: <https://frpsug.github.io/>