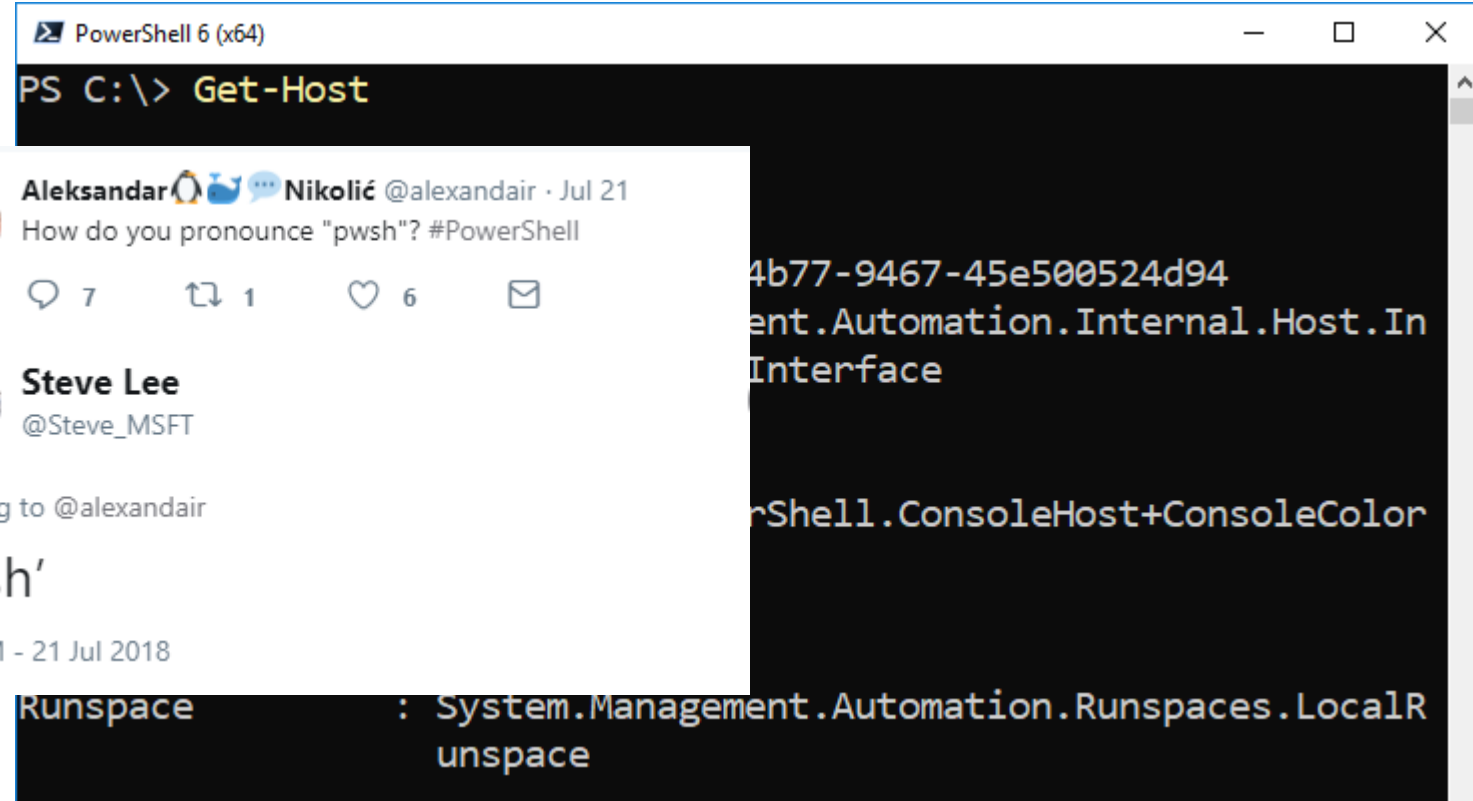
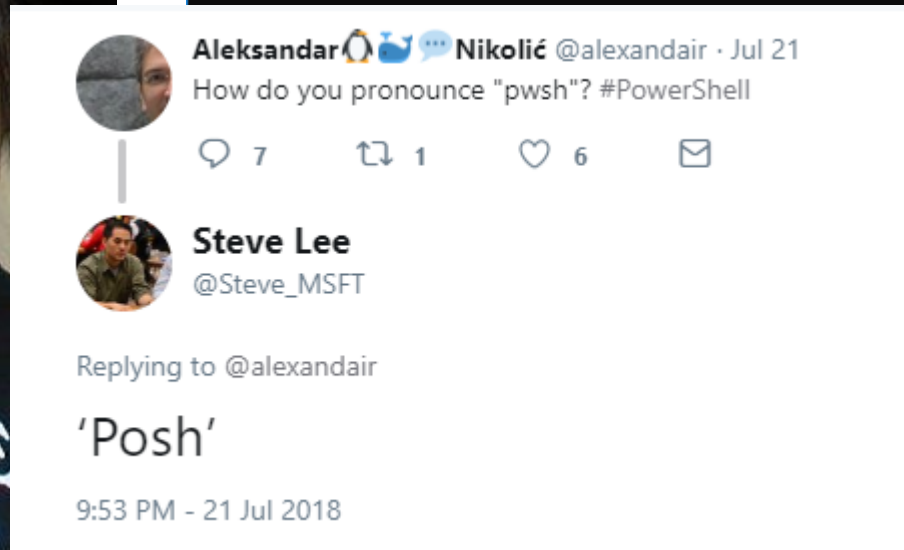


# Separated at birth



```
PS /root> cat /etc/os-release | grep PRETTY
PRETTY_NAME="Raspbian GNU/Linux 9 (stretch)"
```

```
PS /root> uname -a
```

```
Linux pi3 4.9.59-v7+ #1047 SMP Sun Oct 29 12:19:23 GMT 2017 armv7l GNU/Linux
```

```
PS /root> $PSVersionTable
```

| Name                      | Value   |
|---------------------------|---|
| ----                      | -----   |
| PSVersion                 | 6.0.2   |
| PSEdition                 | Core  |
| GitCommitId               | v6.0.2  |
| OS                        | Linux 4.9.59-v7+ #1047 SMP Sun Oct 29 12:19:23 GMT 2017 |
| Platform                  | Unix  |
| PSCompatibleVersions      | {1.0, 2.0, 3.0, 4.0...}                                 |
| PSRemotingProtocolVersion | 2.3   |
| SerializationVersion      | 1.1.0.1   |
| WSManStackVersion         | 3.0   |

```
PS /root> /public/Get-KrakenExchangeRates.ps1
```

| Currency | High   | Low    | Weighted_price | Volume  |
|----------|--------|--------|----------------|---------|
| -----    | ----   | ---    | -----          | -----   |
| EUR      | 6833   | 6440.3 | 6628.22        | 5427.37 |
| USD      | 8422   | 7943.3 | 8167.39        | 4304.17 |
| CAD      | 10098  | 8892   | 9609.56        | 41.25   |
| JPY      | 909279 | 847790 | 875939.86      | 1.95    |

# PoSh Core 6.1

- 1st version of PoSh Core: WS 2016 NANO
- Support for Windows 7+
- Support for LOTS of Linux distros/releases
- Support for MacOS 10.12+
- Supports Unzip/Copy/Paste installations + multiple versions side-by-side
- Comes with .NET Core 2.1 "attached", no side effects on existing installations

# Mind the gap: Windows vs. \*nix

- "Same" CmdLets with different capabilities: Invoke-Command, ConvertTo-Json, ...
- Less Built-In CmdLets
- Missing aliases: ls, ps, wget, curl ...
- NO RSAT for \*nix
- Case sensitivity

```
PS /> function HelloWorld { 'Hello World!' }
PS /> helloworld
Hello World!
PS /> /public/HelloWorld.ps1
Hello World!
PS /> /public/helloworld.ps1
/public/helloworld.ps1 : The term '/public/helloworld.ps1' 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 c
orrect and try again.
At line:1 char:1
+ /public/helloworld.ps1
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (/public/helloworld.ps1:String) [], Comman
dNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
```

# Ubuntu 18.04: Snaps

## Featured Server Snaps

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

|                     |                             |   |
|---------------------|-----------------------------|---|
| rocketchat-server   | rocketchat                  | Group chat server for 100s, installed in seconds.                           |
| nextcloud           | nextcloud                   | Nextcloud Server - A safe home for all your data                            |
| <b>_ powershell</b> | <b>microsoft-powershell</b> | <b>PowerShell for every system!</b>   |
| lxd                 | canonical                   | System container manager and API  |
| canonical-livepatch | canonical                   | Canonical Livepatch Client  |
| aws-cli             | aws                         | Universal Command Line Interface for Amazon Web Services                    |
| doctl               | digitalocean                | Digital Ocean command line tool   |
| conjure-up          | canonical                   | Package runtime for conjure-up spells                                       |
| google-cloud-sdk    | google-cloud-sdk            | Command-line interface for Google Cloud Platform products and services      |
| postgresql10        | cmd                         | PostgreSQL is a powerful, open source object-relational database system     |
| heroku              | heroku                      | CLI client for Heroku   |
| keepalived          | sabdf1                      | High availability VRRP and load-balancing for Linux                         |
| amazon-ssm-agent    | aws                         | Agent to enable remote management of your Amazon EC2 instance configuration |
| etcd                | tvansteenburgh              | Resilient key-value store by CoreOS   |
| docker              | docker-inc                  | The docker app deployment mechanism   |
| prometheus          | jacek                       | The Prometheus monitoring system and time series database                   |
| juju                | canonical                   | juju client   |
| wekan               | xet7                        | The open-source kanban  |
| wormhole            | snappycrafters              | get things from one computer to another, safely                             |
| minidlna-escoand    | escoand                     | server software with the aim of being fully compliant with DLNA/UPnP c      |

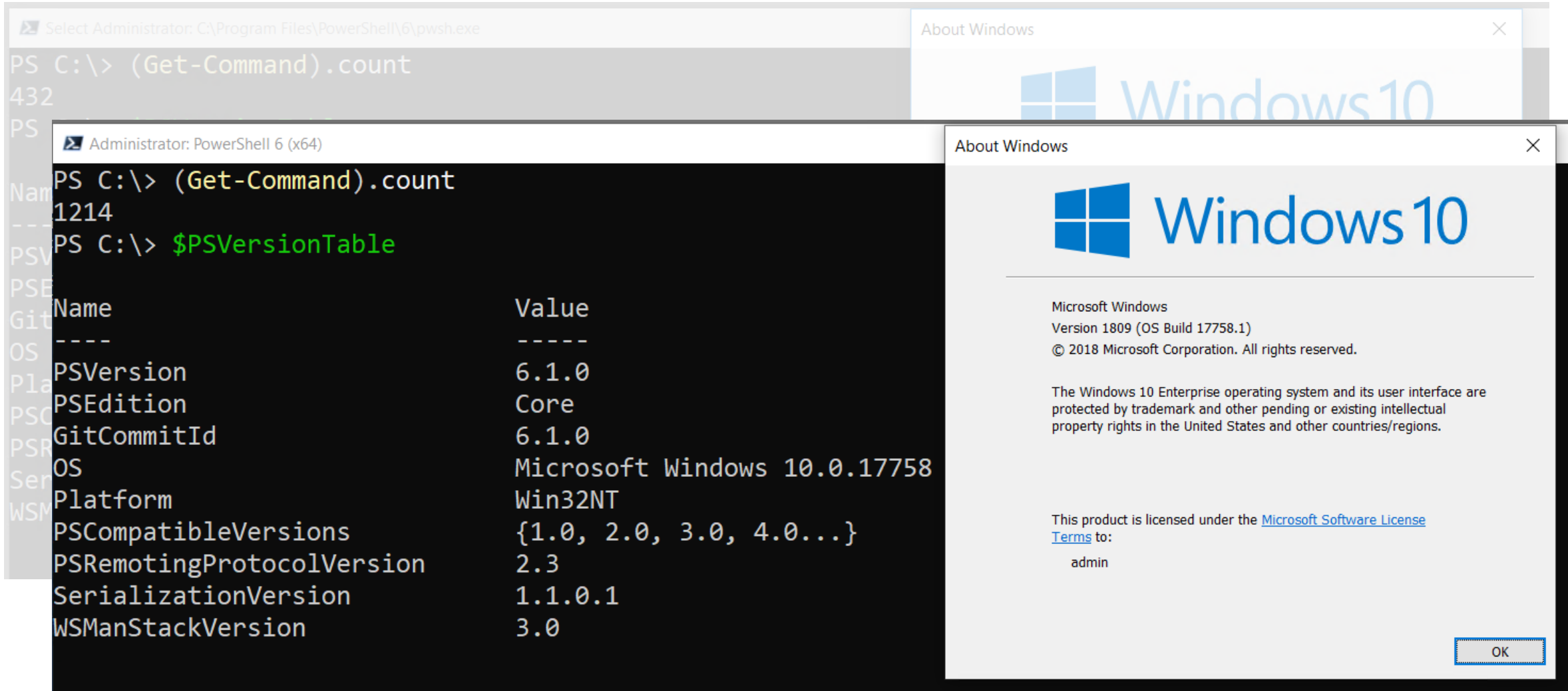
[ Done ]

7 / 11

Install in progress: acquiring and extracting image from cp:///media/filesystem

# Demo

# PwSh 6.1 & Windows 10



Select Administrator: C:\Program Files\PowerShell\6\pwsh.exe

PS C:\> (Get-Command).count

432

PS C:\> (Get-Command).count

1214

PS C:\> \$PSVersionTable

| Name                      | Value                        |
|---------------------------|------------------------------|
| PSVersion                 | 6.1.0                        |
| PSEdition                 | Core                         |
| GitCommitId               | 6.1.0                        |
| OS                        | Microsoft Windows 10.0.17758 |
| Platform                  | Win32NT                      |
| PSCompatibleVersions      | {1.0, 2.0, 3.0, 4.0...}      |
| PSRemotingProtocolVersion | 2.3                          |
| SerializationVersion      | 1.1.0.1                      |
| WSManStackVersion         | 3.0                          |

About Windows

Windows 10

Microsoft Windows  
Version 1809 (OS Build 17758.1)  
© 2018 Microsoft Corporation. All rights reserved.

The Windows 10 Enterprise operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions.

This product is licensed under the [Microsoft Software License Terms](#) to:  
admin

OK

# Azure Cloud Shell

```
Bash  v |  ?  ⚙  ↶  📄
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI 2.0
Type "help" to learn about Cloud Shell

t@Azure:~$ uname -a
Linux cc-ad10-b4b95bdb-2651052326-jf5nm 4.4.0-119-generic #143-Ubuntu SMP Mon Apr 2 16:08:24 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
t@Azure:~$ cat /etc/os-release
NAME="Ubuntu"
VERSION="16.04.4 LTS (Xenial Xerus)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 16.04.4 LTS"
VERSION_ID="16.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"
VERSION_CODENAME=xenial
UBUNTU_CODENAME=xenial
t@Azure:~$
```



# Wrap up!

- PoSh + Win32\_OpenSSH
  - partially BETA quality
  - rapid deployment
  - community driven
  - \$isConfusing = \$true

# Questions?

# Podcast: Sliding Windows



[www.slidingwindows.de/?feed=slw-mp3](http://www.slidingwindows.de/?feed=slw-mp3)

## Get-Guest

- Jeffrey Snover
- Bruce Payette
- Bartek Bielawski, Joey Aiello
- Rolf Masuch
- (..)



# Get-Content | more

- What's new in PowerShell - BRK3069  
<https://youtu.be/9fFAND6OCKU>
- What's New in PowerShell Core 6.1  
<https://docs.microsoft.com/en-us/powershell/scripting/whats-new/what-s-new-in-powershell-core-61>
- PowerShell unplugged with Jeffrey Snover and Jason Helmick -  
BRK2051  
<https://youtu.be/DPICqEiz3m4>