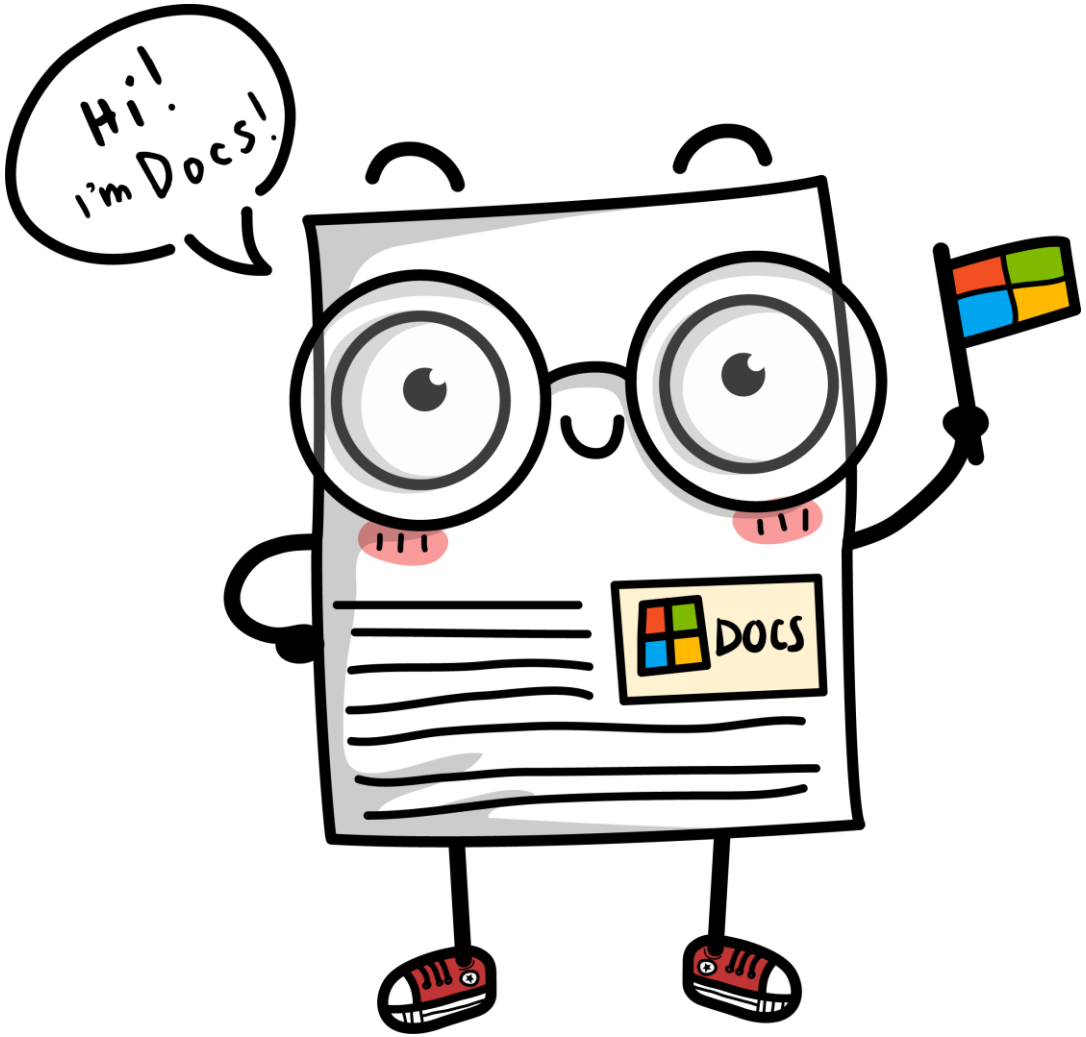
Microsoft

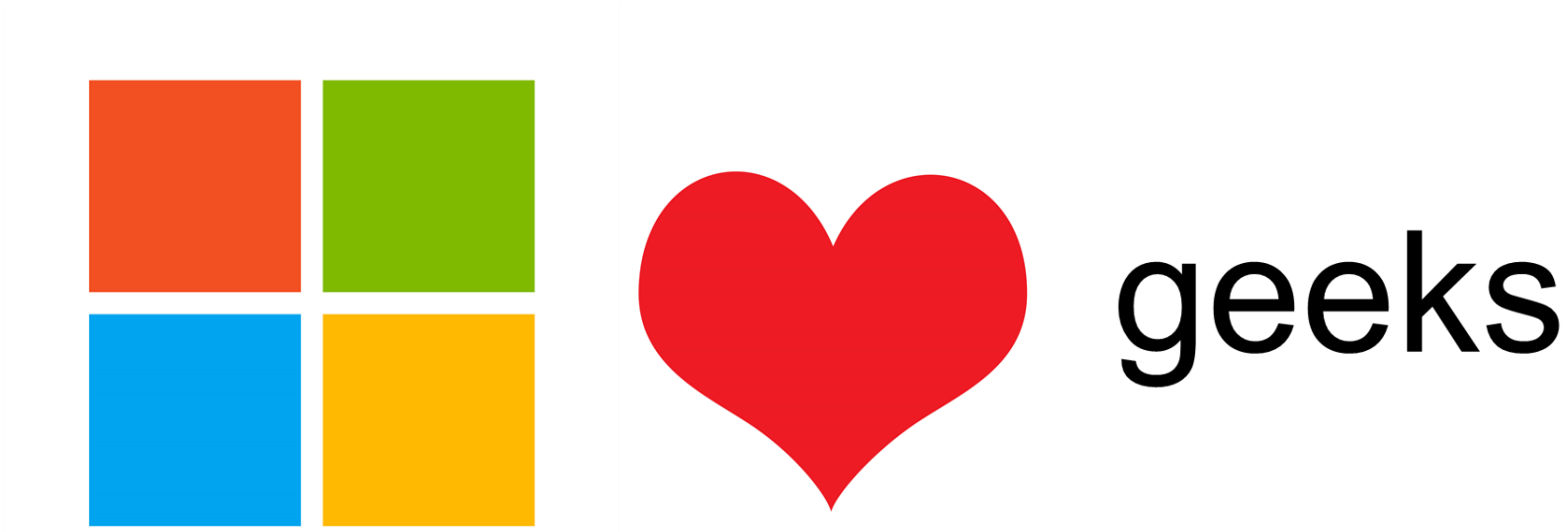


Powershell quick starts, tutorials, API reference, and code examples!

Advance your career with hands-on training at **docs.microsoft**

Check it out here:

Microsoft

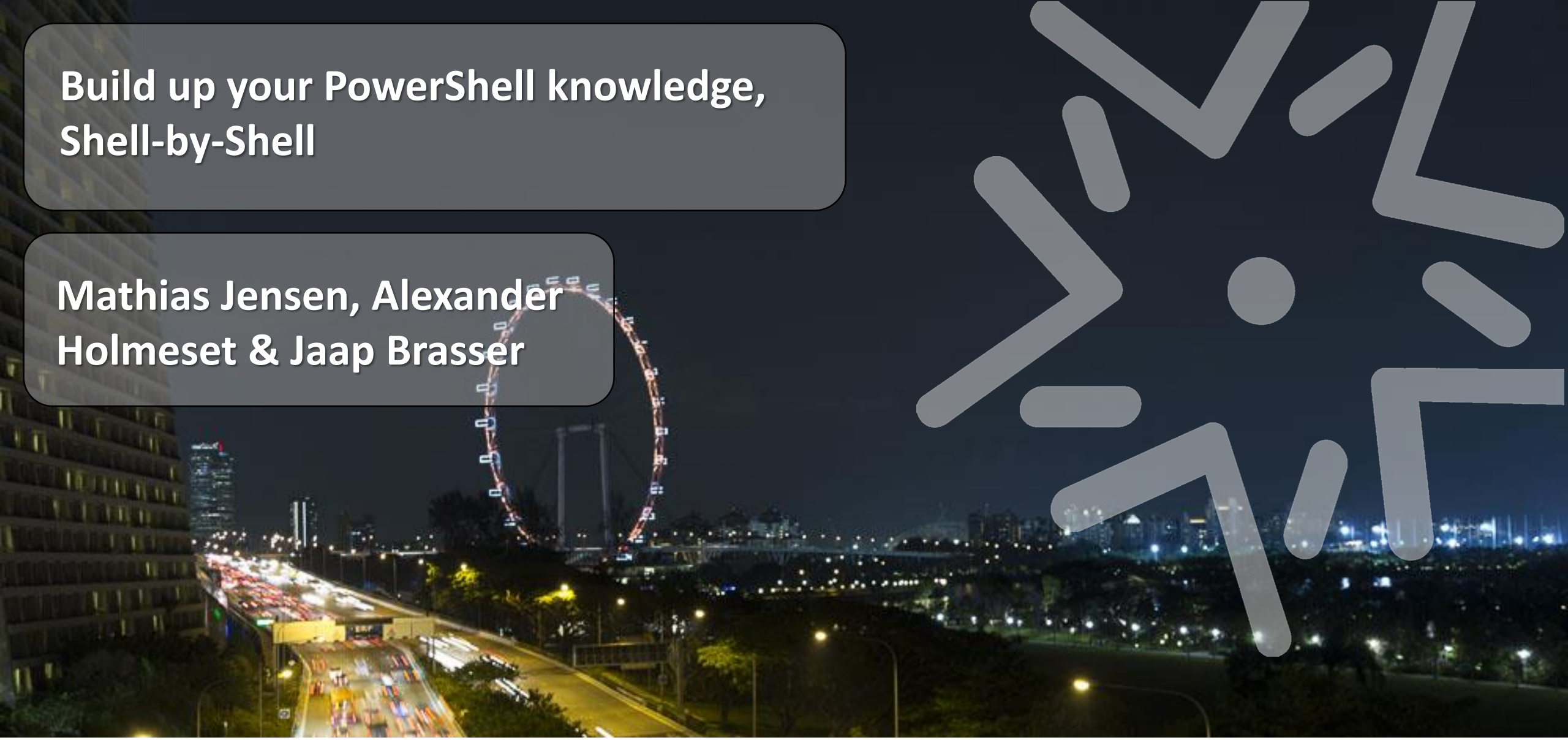


We really do!

Show some love and join the conversation by tweeting
@MicrosoftTech

Build up your PowerShell knowledge, Shell-by-Shell

Mathias Jensen, Alexander Holmeset & Jaap Brasser



MVP Microsoft Most Valuable Professional
SAPIEN Technologies, Inc.
Microsoft
vmware
SystemFrontier
rubrik
MANNING
Packt
NETASSIST

PSConf.Asia

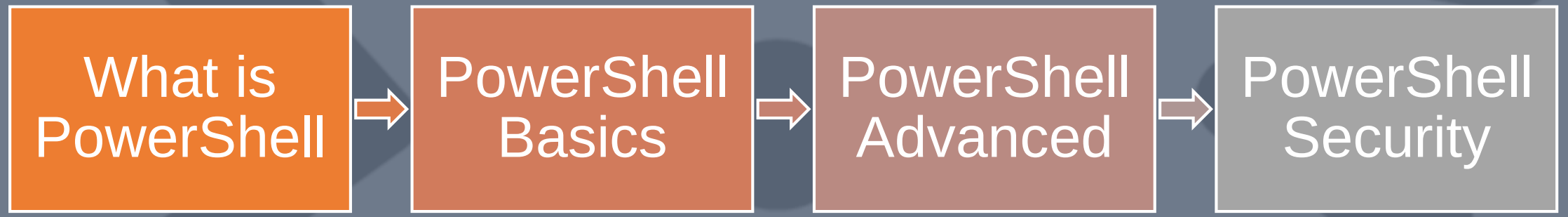
Build up your PowerShell knowledge, Shell-by-Shell

jaap_brasser

IISResetMe

AlexHolmeset

Agenda


What is PowerShell
PowerShell Basics
PowerShell Advanced
PowerShell Security

Alexander Holmeset

- Cloud Consultant @ CloudWay
- MCSE Productivity
- Twitter: AlexHolmeset
- Blog: http://alexholmeset.blog

Mathias Jensen

- Does cool things with PowerShell

Jaap Brasser

Tweets	@ jaap_brasser
Blogs	@ jaapbrasser.com
Works	Tech Marketeer @ Rubrik.com
Does	Blogger, Speaker, Tech Enthusiast
Likes	Cloud Automation, Scripting & Security

rubrik

MVP Microsoft® Most Valuable Professional

PoshCode

Sign Up | Chat Anonymously

You're Invited

Join the PowerShell Virtual User Group on Slack

We have had a Virtual User Group on FreeNode IRC since before PowerShell was generally available, and we added a PowerShell Slack chapter years ago. Join the thousands of members getting real-time assitance!

You can sign up directly on slack, or just use the form below. Either way, you'll get an invitation via email (nearly instantly) from Slack, and once you receive the invitation you can log in via the PowerShell Slack.

If you're uncomfortable giving out your email address, you can still join us on IRC in your favorite client or through the embedded IRC Chat window on the Chat Anonymously tab.

Join-Slack

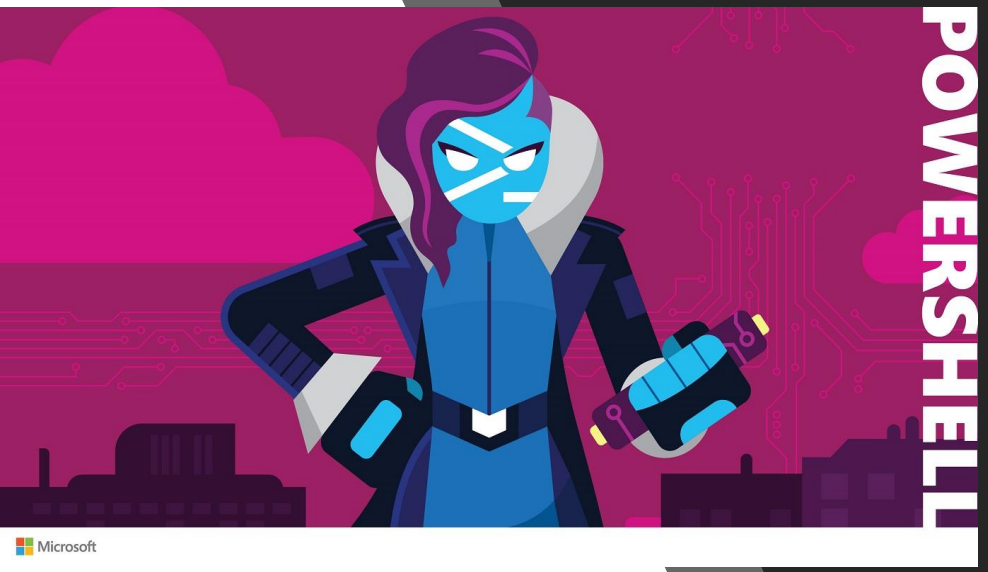
Stick a valid email address in the pipe and our scripts will send you an invitation:

you@example.com | Get-Invite

PowerShell Conference
Singapore 2018

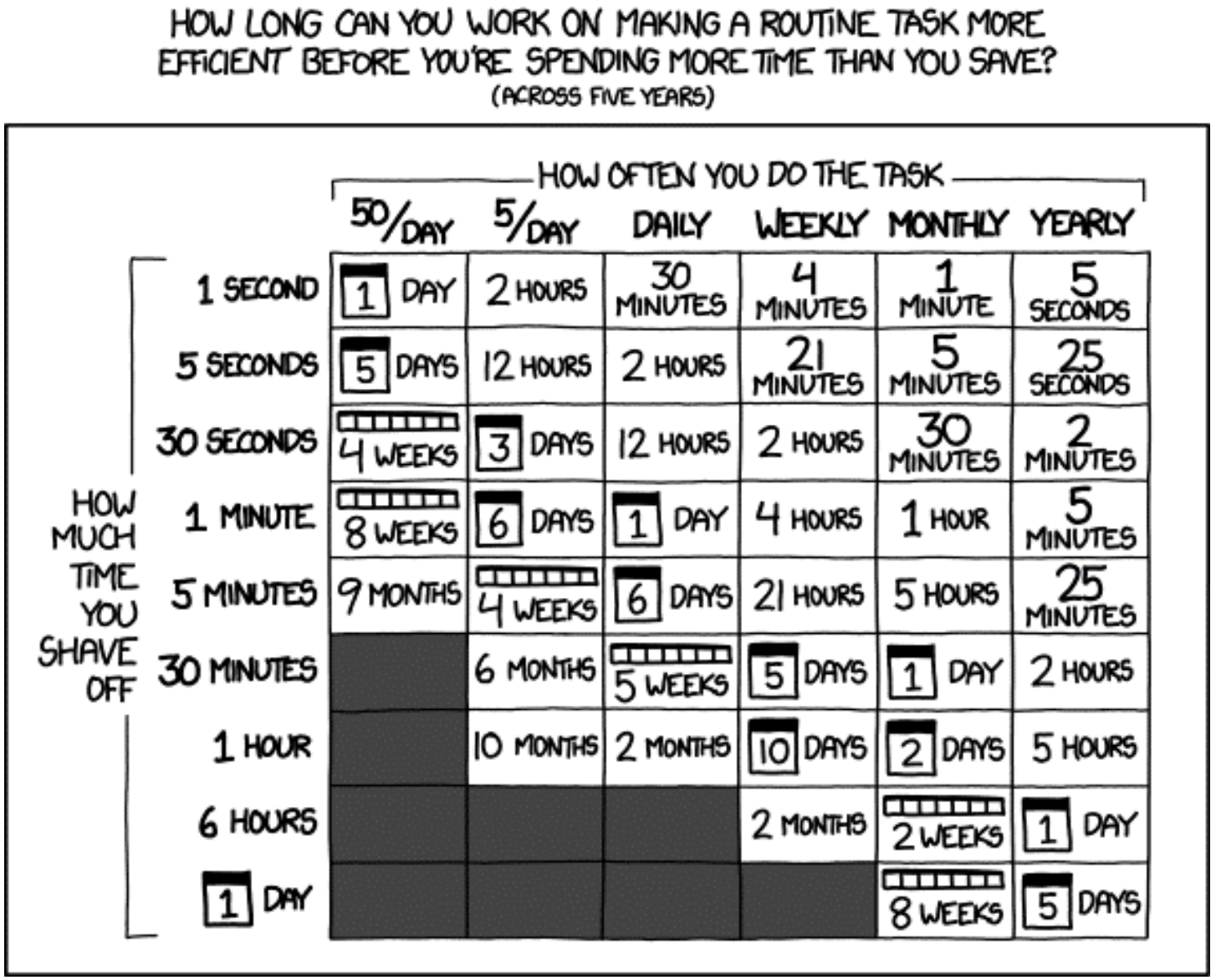
Microsoft

What is PowerShell



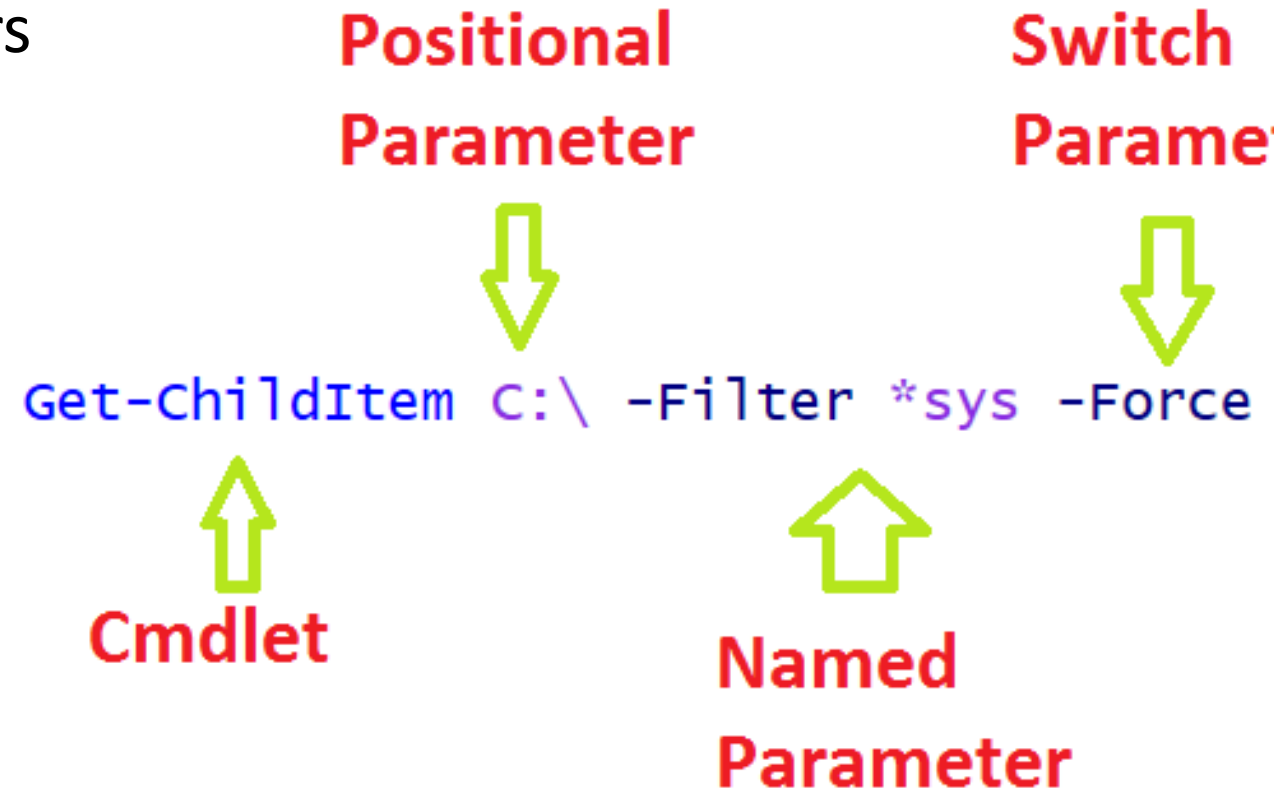
- Development started in 2001
- First released in 2006
- Was initially codenamed Monad
- It is written: **P**ower**S**hell
- Currently at version 6

Worth our time?



PowerShell Syntax

- Parameters
- Positional parameters
- Arguments



Get-ChildItem –Path C:\ -Filter *sys -Force

What is PowerShell

Windows PowerShell

Learn about the PowerShell scripting language.

Desired State Configuration

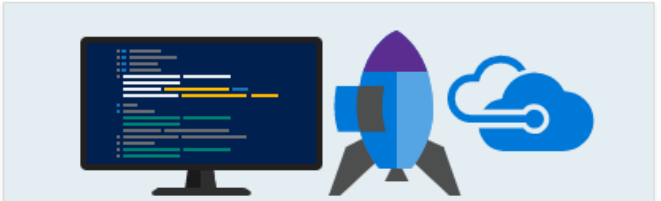
Use PowerShell to manage system and enforce configurations.

Just Enough Administration

Secure management in PowerShell by limiting permissions to only what is needed.

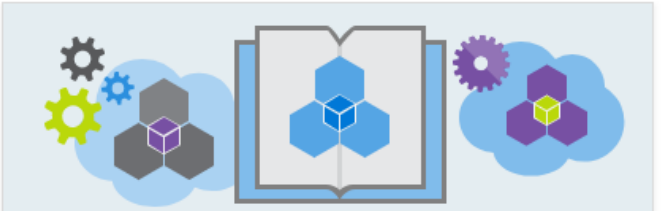
PowerShell Gallery

The central repository for PowerShell scripts and modules.



Azure PowerShell

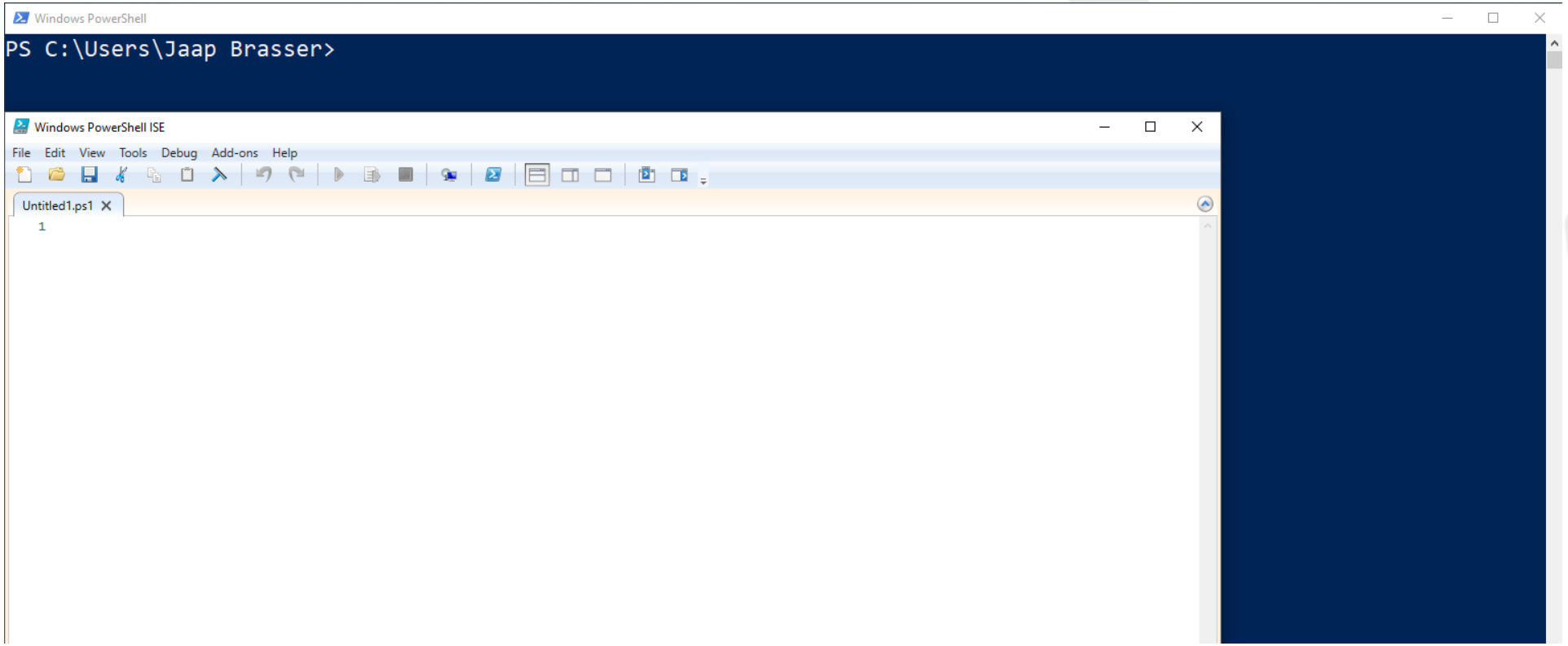
Manage your Azure deployments using PowerShell.



Modules

See the reference documentation for numerous PowerShell modules.

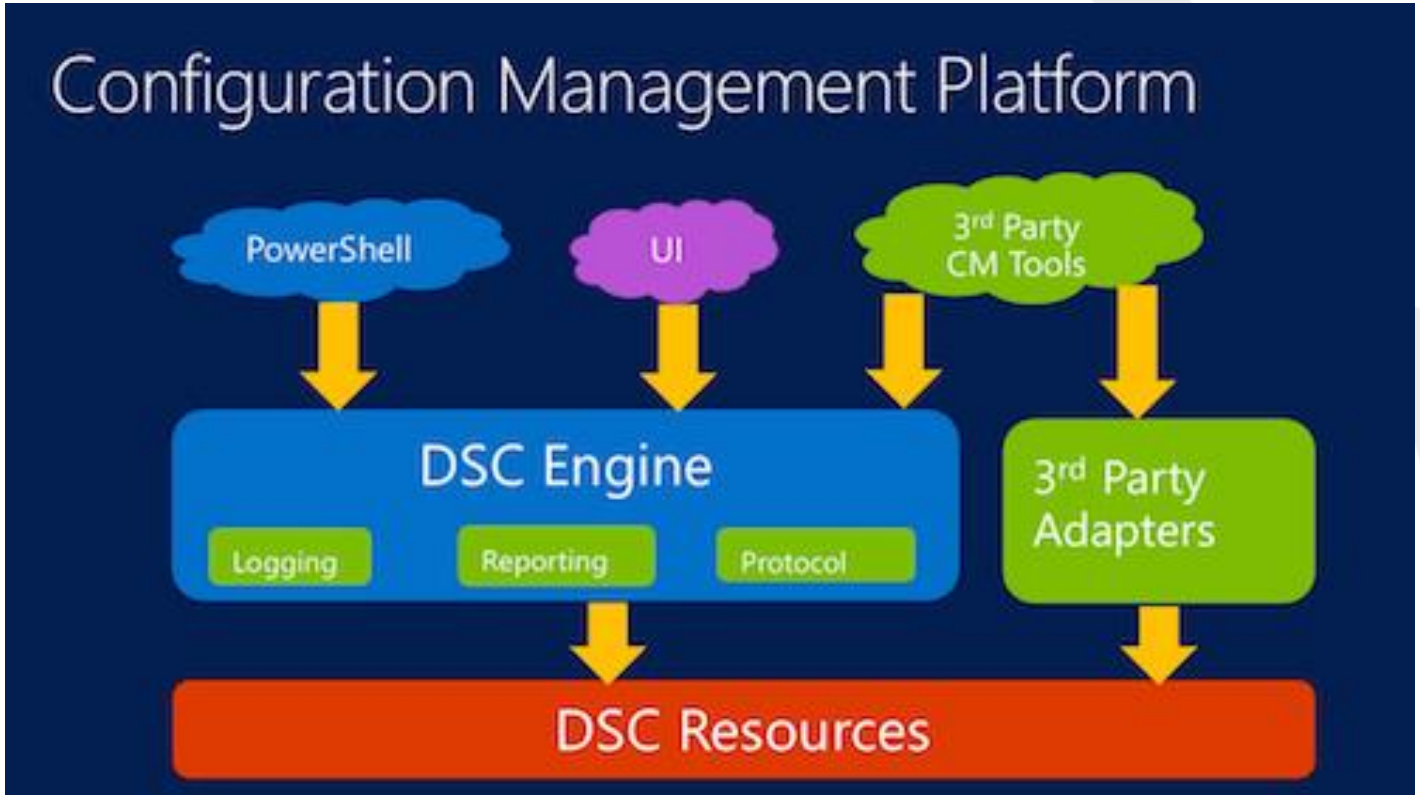
Windows PowerShell



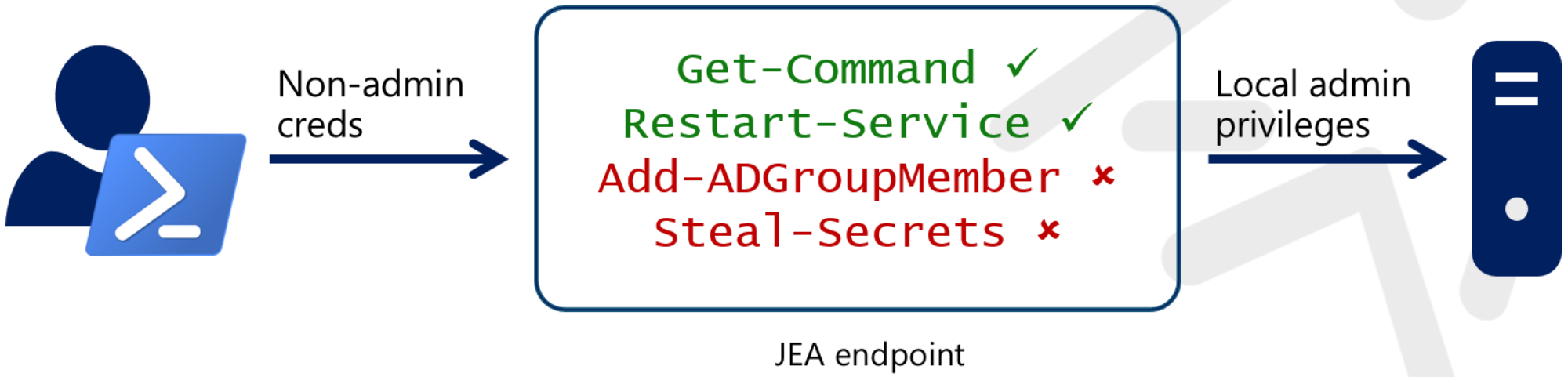
Windows PowerShell versions

PowerShell Version	Release Date	Default Windows Versions	Available Windows Versions
PowerShell 1.0	November 2006	Windows Server 2008 (*)	Windows XP SP2 Windows XP SP3 Windows Server 2003 SP1 Windows Server 2003 SP2 Windows Server 2003 R2 Windows Vista Windows Vista SP2
PowerShell 2.0	October 2009	Windows 7 Windows Server 2008 R2 (**)	Windows XP SP3 Windows Server 2003 SP2 Windows Vista SP1 Windows Vista SP2 Windows Server 2008 SP1 Windows Server 2008 SP2
PowerShell 3.0	September 2012	Windows 8 Windows Server 2012	Windows 7 SP1 Windows Server 2008 SP2 Windows Server 2008 R2 SP1
PowerShell 4.0	October 2013	Windows 8.1 Windows Server 2012 R2	Windows 7 SP1 Windows Server 2008 R2 SP1 Windows Server 2012
PowerShell 5.0	July 2015	Windows 10	Windows 8.1 Windows Server 2012 R2
PowerShell 5.1	July 2016	Windows 10	Windows 8.1 Windows Server 2012 R2

Configuration Management



Just Enough Administration



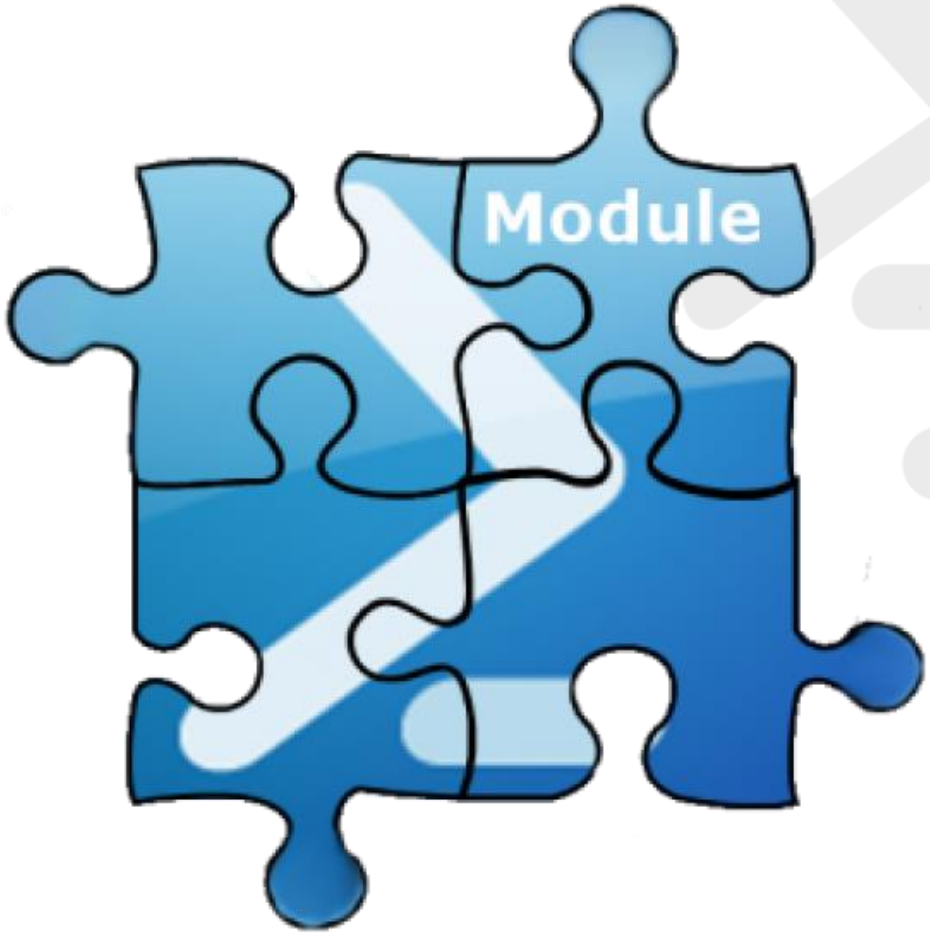
PowerShell Gallery

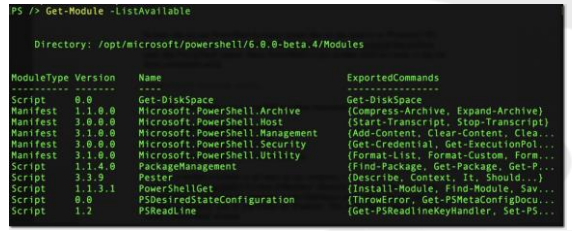
Azure PowerShell

PowerShell

Microsoft Azure

Modules





```
PS /> Get-Module -ListAvailable

    Directory: /opt/microsoft/powershell/6.0.0-beta.4/Modules

ModuleType Version    Name                                ExportedCommands
---------- -------    ----                                ----------------
Script     0.0        Get-DiskSpace                       Get-DiskSpace
Manifest   1.1.0.0    Microsoft.PowerShell.Archive        {Compress-Archive, Expand-Archive}
Manifest   3.0.0.0    Microsoft.PowerShell.Host           {Start-Transcript, Stop-Transcript}
Manifest   3.1.0.0    Microsoft.PowerShell.Management     {Add-Content, Clear-Content, Clea...
Manifest   3.0.0.0    Microsoft.PowerShell.Security       {Get-Credential, Get-ExecutionPol...
Manifest   3.1.0.0    Microsoft.PowerShell.Utility        {Format-List, Format-Custom, Form...
Script     1.1.4.0    PackageManagement                   {Find-Package, Get-Package, Get-P...
Script     3.3.9      Pester                              {Describe, Context, It, Should...}
Script     1.1.3.1    PowerShellGet                       {Install-Module, Find-Module, Sav...
Script     0.0        PSDesiredStateConfiguration         {ThrowError, Get-PSMetaConfigDocu...
Script     1.2        PSReadLine                          {Get-PSReadlineKeyHandler, Set-PS...
```

PowerShell, what else?

Demo

Questions

- Twitter:
  - @jaap_brasser
  - #PSConfAsia #PowerShell
- Microsoft Tech Communities
- GitHub
  - github.com/jaapbrasser/events

Don’t Forget!

- Fill in your survey – it’s how we do better!
- Don’t lose you badge! You need it for the Social Events
- Grab the Speakers for a chat – they all have time for you!
- Let everyone know what they are missing on Social Media

  #PowerShell
  #PSConfAsia
  @PsconfAsia

Photos of Marina Bay Credit: Sebastian Szumigalski

MVP Microsoft Most Valuable Professional
SAPIEN Technologies, Inc.
Microsoft
vmware
SystemFrontier
rubrik
MANNING
Packt
NETASSIST