POWERCLI – WHERE TO START?

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HTTPS://VIRTUALBRAKEMAN.WORDPRESS.COM

#VBROWNBAG TECHTALKS VMWORLD EMEA, 19TH OCTOBER 2016





MHOs

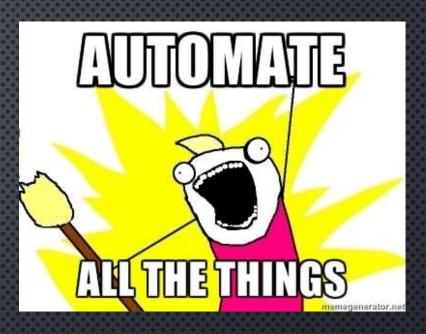
- Systems Engineer focused on automation in delivery of infrastructure solutions
- VMWARE VEXPERT 2016
- CISCO CHAMPION 2016
- MULTIPLE VCPs NSX/vSphere/Cloud
- MCSA 2012

STAHM

- WHY SHOULD WE USE AUTOMATION?
- WHY POWERCLI?
- How do I get started?
- PLACES TO GET HELP

MHA VILOWALES

- QUICKER
- MORE CONSISTENT
- KEEP UP WITH BUSINESS DEMAND
- DO MORE WITH LESS
- Break down silos
- Remove human error
- INCREASE CONTROL



WHY USE POWERSHELL/POWERCLI?



- UBIQUITOUS ACROSS ALL PLATFORMS
- SIMPLE TO PICK UP
- ALL THE PLUGINS, SO MUCH GOODNESS
- Huge community of users
- INTEGRATE CHANGES TO MANY PLATFORMS IN A SINGLE SCRIPT

mware **NEE**





IT JUST WORKS!™

EMC

nimblestorage















HOW DO I GET STARTED?

- Use what you already have
- START SMALL
- Build a development environment
- JOIN A COMMUNITY
- STEAL
- Don't Change anything (in production) until you know what you're doing
- EXPECT TO FAIL OFTEN



PS C:\Users\thynes> get-vm

Name	PowerState	Num CPUs	MemoryGB
CUSTEXC01	PoweredOn	2	12.000
CUSTDC01	PoweredOn	1	4.000

PS C:\Users\thynes> get-vm *EXC*

Name PowerState Num CPUs MemoryGB

CUSTEXC01 PoweredOn 2 12.000

PS C:\Users\thynes> get-vm *EXC* | Get-Datastore

Name FreeSpaceGB CapacityGB

Some_Datastore 311.191 972.800

PS C:\Users\thynes> get-vm *EXC* | Get-Datastore

PS C:\Users\thynes> get-vm *EXC* | Get-Datastore

Name FreeSpaceGB CapacityGB

Some_Datastore 311.191 972.800

PS C:\Users\thynes> get-vm *EXC* | Get-Datastore

```
PS C:\Users\thynes> get-vm *EXC* | Get-Datastore | get-vmhost | select name
```

```
Name
```

mgtesx01.mylab.local
mgtesx02.mylab.local
prdesx01.mylab.local
prdesx02.mylab.local

```
PS C:\Users\thynes> $hosts = get-vm *EXC* | Get-Datastore | get-
vmhost | select name
```

```
Name
```

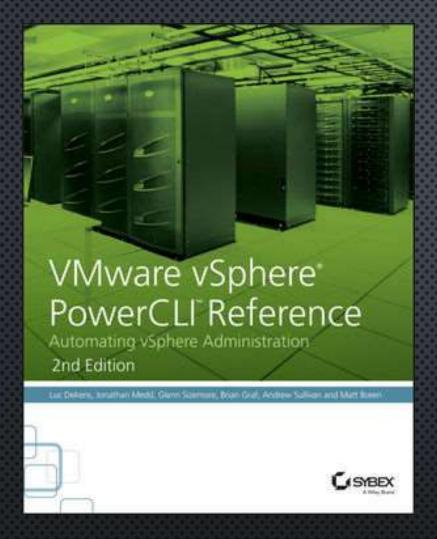
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mgtesx01.mylab.local
mgtesx02.mylab.local
prdesx01.mylab.local
prdesx02.mylab.local

PS C:\Users\thynes> foreach (\$vmhost in \$hosts) { Stop-VMHost }

MORE INFORMATION

- SOCIALISE STACK OVERFLOW, VMWARE COMMUNITIES, TWITTER, MEETUPS
- Learn by doing Codecademy, VMware Hands on Labs, Vagrant
- VENDOR DOCUMENTATION REST API GUIDES, POWERSHELL MODULE DOCUMENTATION
- BLOGS
 - BRIAN GRAF VTAGION.COM
 - WILLIAM LAM VIRTUALLYGHETTO.COM
 - ALAN RENOUF VIRTU-AL.NET
 - JONATHAN MEDD JONATHANMEDD.NET

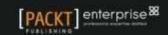


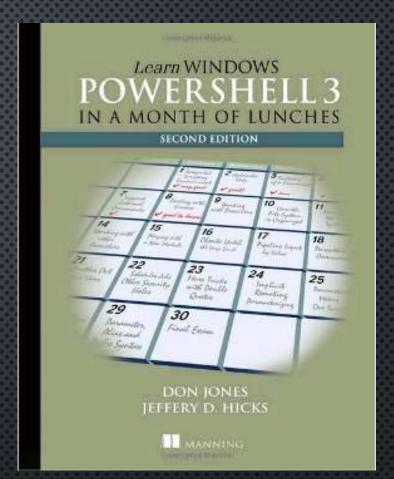


Learning PowerCLI

A practical guide to get you started with automating VMware vSphere via PowerCLI

Robert van den Nieuwendijk





INTERESTING VMWORLD SESSIONS

- INF8038 GETTING STARTED WITH POWERSHELL AND POWERCLI FOR YOUR VMWARE ENVIRONMENT (ON YOUTUBE)
- INF8036 Enforcing a vSphere Cluster Design with PowerCLI Automation (On YouTube)
- INF8092 The Power Hour: Deep Dive, DevOps, and New Features of PowerCLI

THANKS FOR LISTENING