

Awesome API-based Automation with VMware

Jaap Brasser
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Jaap Brasser

Tweets

 [jaap_brasser](#)

Codes

 [jaapbrasser](#)

Works

Developer Advocate @ Rubrik

Does

Blogger, Speaker, Tech Enthusiast

Likes

Cloud Automation & Security





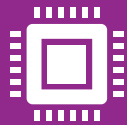
Agenda



Infrastructure Management



VMware Tools



VMware {Code}



Python SDK

Infrastructure Management – Historically





Managing VMware



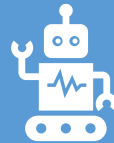
vSphere (web)client



PowerCLI



EsxCli



APIs

vSphere (web) client



vSphere (web) client

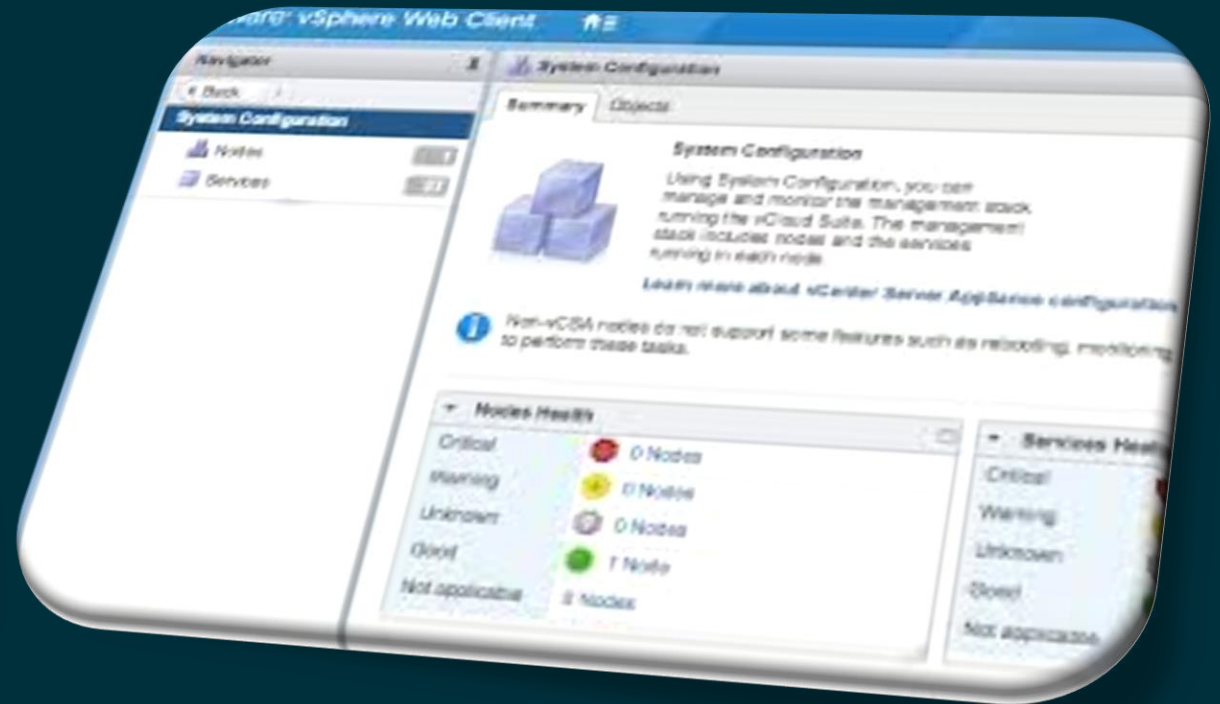
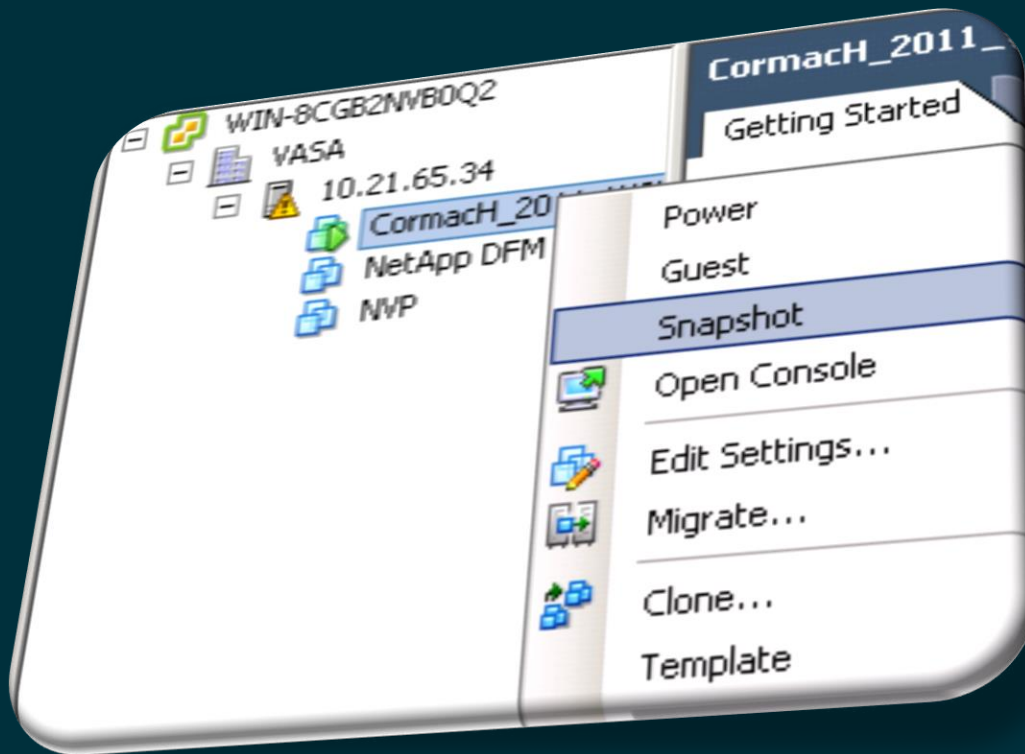
Cross-platform

Easy to use

Limited functionality

No automation

Differences between interfaces



PowerCli & EsxCli



PowerCli



EsxCli

Cross-platform

Steep learning curve

Extensive Functionality

All Automation

Parameters for "New-OSCustomizationSpec":



Linux Cloning WindowsParameterSet

☐ Confirm

Description:

DnsServer:

DnsSuffix:

Domain:

Name:

NamingPrefix:

NamingScheme:

OSType:

Server:

Type:

☐ WhatIfType: WindowsImage
Optional

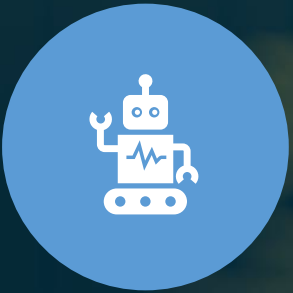
⌵ Common Parameters

Run

Copy

Cancel

APIs



APIs

Cross-platform

Steepest learning curve

Extensive Functionality

All Automation

VMWORLD HACKATHON 2019 REGISTRATION

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PowerCLI



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Open Source


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Python SDK


 GitHub, Inc. [US] | github.com/vmware/vsphere-automation-sdk-python#quick-start-guide


 [Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#) 


 [vmware](#) / [vsphere-automation-sdk-python](#)


 Watch ▾ 50


 Star 261


 Fork 106


 Code


 Issues 16

 Pull requests 1

 Projects 0


 Wiki


 Security


 Insights


Python samples, language bindings, and API reference documentation for vSphere, VMC, and NSX-T using the VMware REST API


[python](#) [python3](#) [api-client](#) [bindings](#) [restful-api](#) [vmware-vsphere](#) [samples](#) [documentation](#)

 216 commits

 5 branches

 6 releases

 16 contributors

 MIT

Branch: master ▾

New pull request

Create new file

Upload files

Find File

Clone or download ▾

EXPLORER

OPEN EDITORS

VSPHERE-AUTOMATION-SDK-PYTHON

- > lib
- > sample_template
- > samples
- > tests
- ◆ .gitignore
- ! .travis.yml
- ↓ CONTRIBUTING.md
- issue_template.md

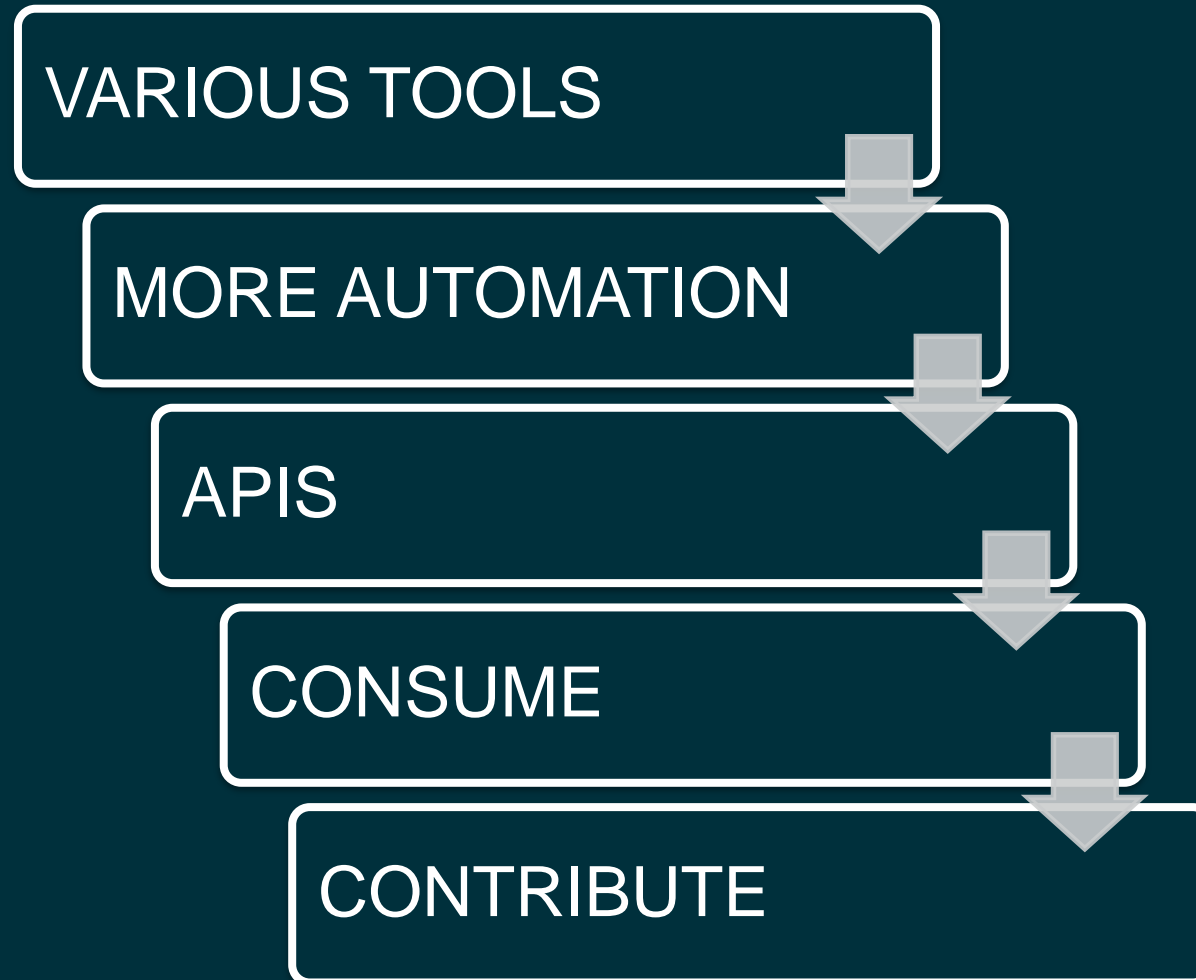
PowerShell 6 (x64)

```
PS C:\users\Jaap\OneDrive\Documents\Events\2019-08-25 VMworld US\vBrownbag> git clone https://github.com/vmware/vsphere-automation-sdk-python.git
Cloning into 'vsphere-automation-sdk-python'...
remote: Enumerating objects: 193, done.
remote: Counting objects: 100% (193/193), done.
remote: Compressing objects: 100% (107/107), done.
remote: Total 3792 (delta 124), reused 132 (delta 85), pack-reused 3599
Receiving objects: 100% (3792/3792), 81.38 MiB | 569.00 KiB/s, done.
Resolving deltas: 100% (2467/2467), done.
```

Show All Commands **Ctrl** + **Shift** + **P**Go to File **Ctrl** + **P**Find in Files **Ctrl** + **Shift** + **F**Start Debugging **F5**Toggle Terminal **Ctrl** + **`**

> OUTLINE

Summary





build

Building the Future of Data Management