VMworld 2019 Content: Not for publication or distribution

Disclaimer

This presentation may contain product features or functionality that are currently under development.

This overview of new technology represents no commitment from VMware to deliver these features in any generally available product.

Features are subject to change, and must not be included in contracts, purchase orders, or sales agreements of any kind.

Technical feasibility and market demand will affect final delivery.

Pricing and packaging for any new features/functionality/technology discussed or presented, have not been determined.

VMworld 2019 Content: Not for publication or distribution

The information in this presentation is for informational purposes only and may not be incorporated into any contract. There is no commitment or obligation to deliver any items presented herein.

©2019 VMware, Inc.

Agenda

Introductions

Day 0 through Day 365

Demo Time!

Resources

Q& A

VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

Speaker Introduction

Nigel Hickey

Technical Marketing Architect | vCenter Server

Personal Blog: www.nigelhickey.com

vSphere Blog: blogs.vmware.com/vsphere

Twitter: @vCenterNerd

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Speaker Introduction

John Nicholson

Senior Technical Marketing Architect | vSAN

Personal Blog: thenicholson.com

vSAN Blog: blogs.vmware.com/virtualblocks

Twitter: @Lost_Signal

VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

HCI Admin Life

VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

Day 0 Setup

Excitement of a new cluster gives way to tedium

- Design decisions
- Multiple teams
- 200+ clicks per host
- Chicken/Egg storage dependencies
- Scale and consistency concerns
- These people are bored/tired

VMworld 2019 Content not for publication or distribution

vmware®
©2019 VMware, Inc.

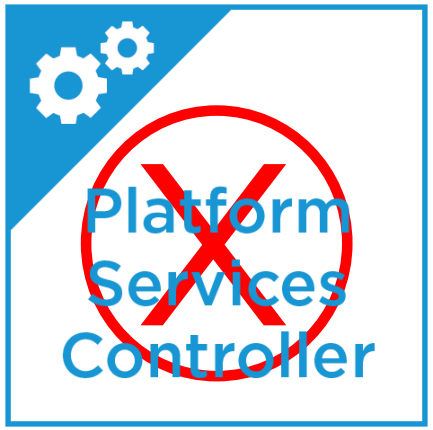
vCenter Server “HCI Install”

Creating a VSAN datastore during VCSA Deployment

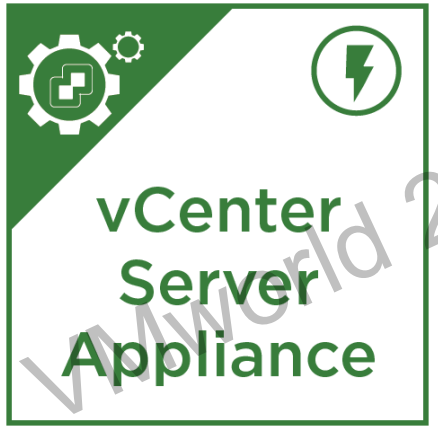
VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

External PSC Deprecation



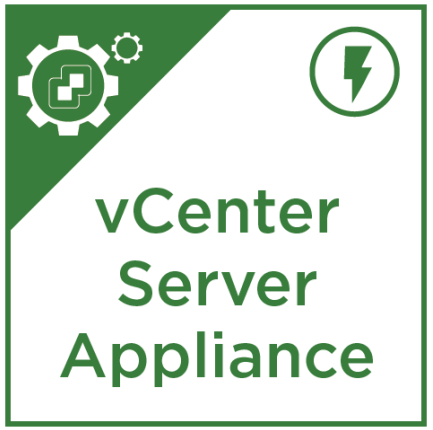
DEPRECATED



Recommended Deployment Model

Converge Tool

Embedded Deployment



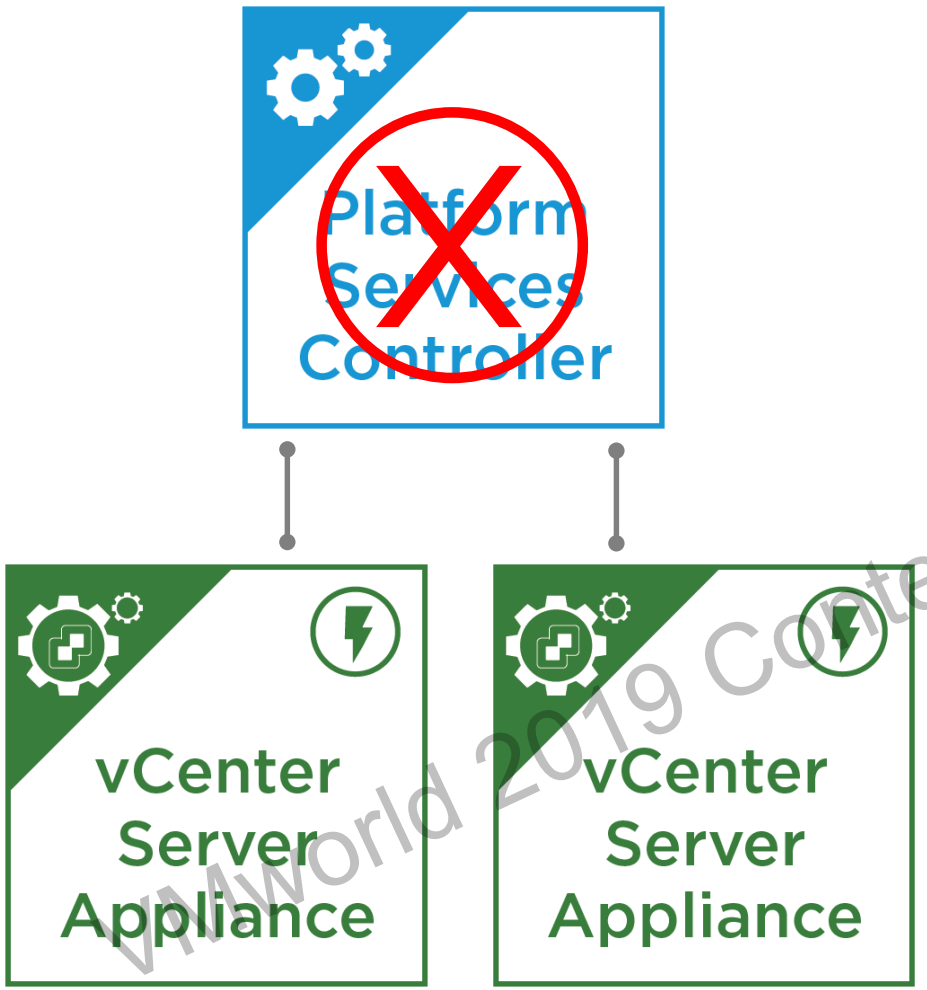
http://vmwa.re/goodbye-external-psc

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

External PSC Deprecation

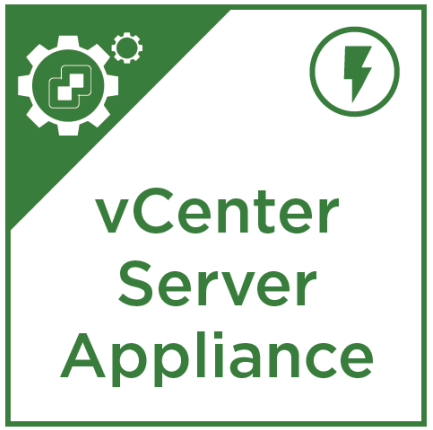
DEPRECATED



Recommended Deployment Model

Converge Tool

Embedded Deployment

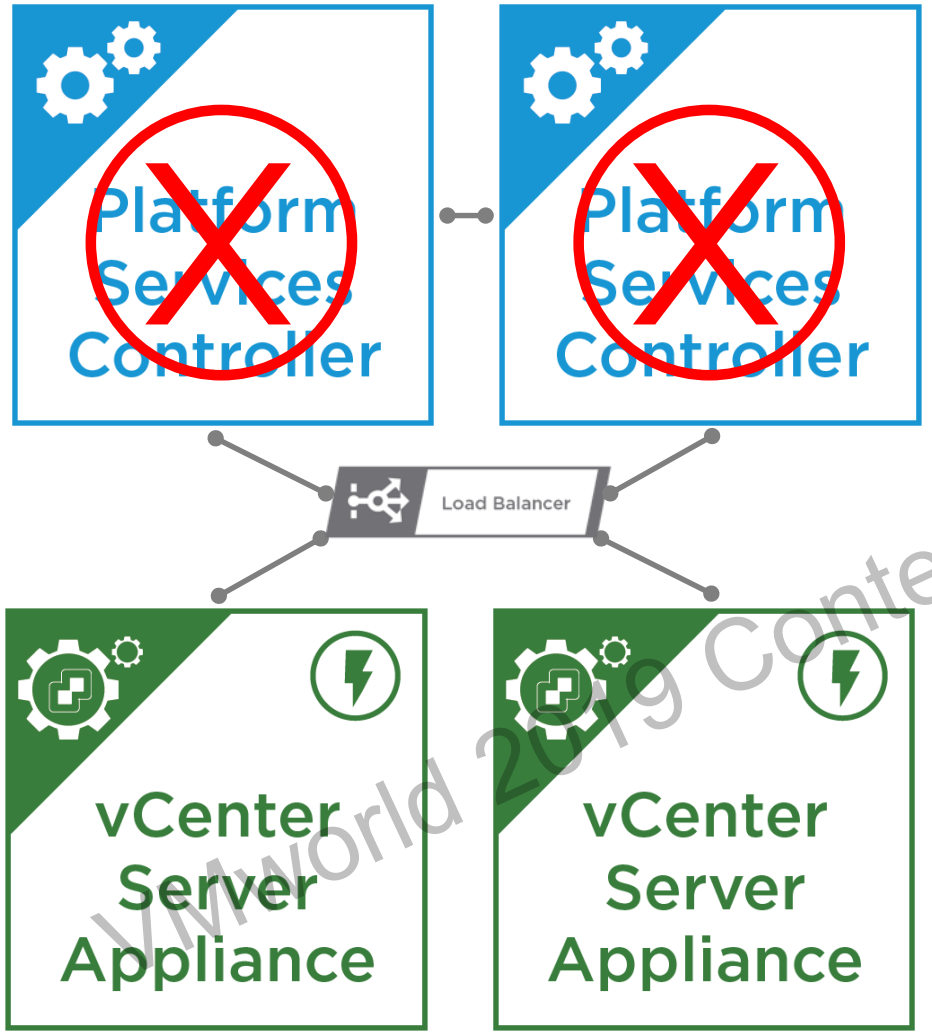


VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

External PSC Deprecation

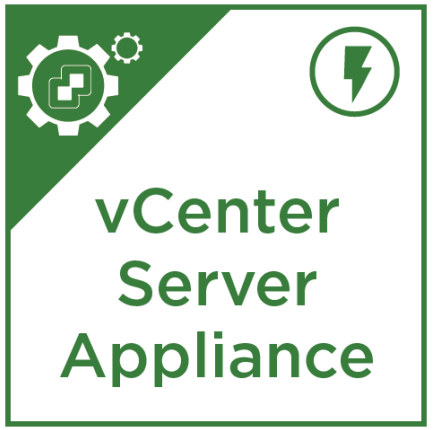
DEPRECATED



Recommended Deployment Model

Converge Tool

Embedded Deployment



KB 60229

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

External Platform Services Controller

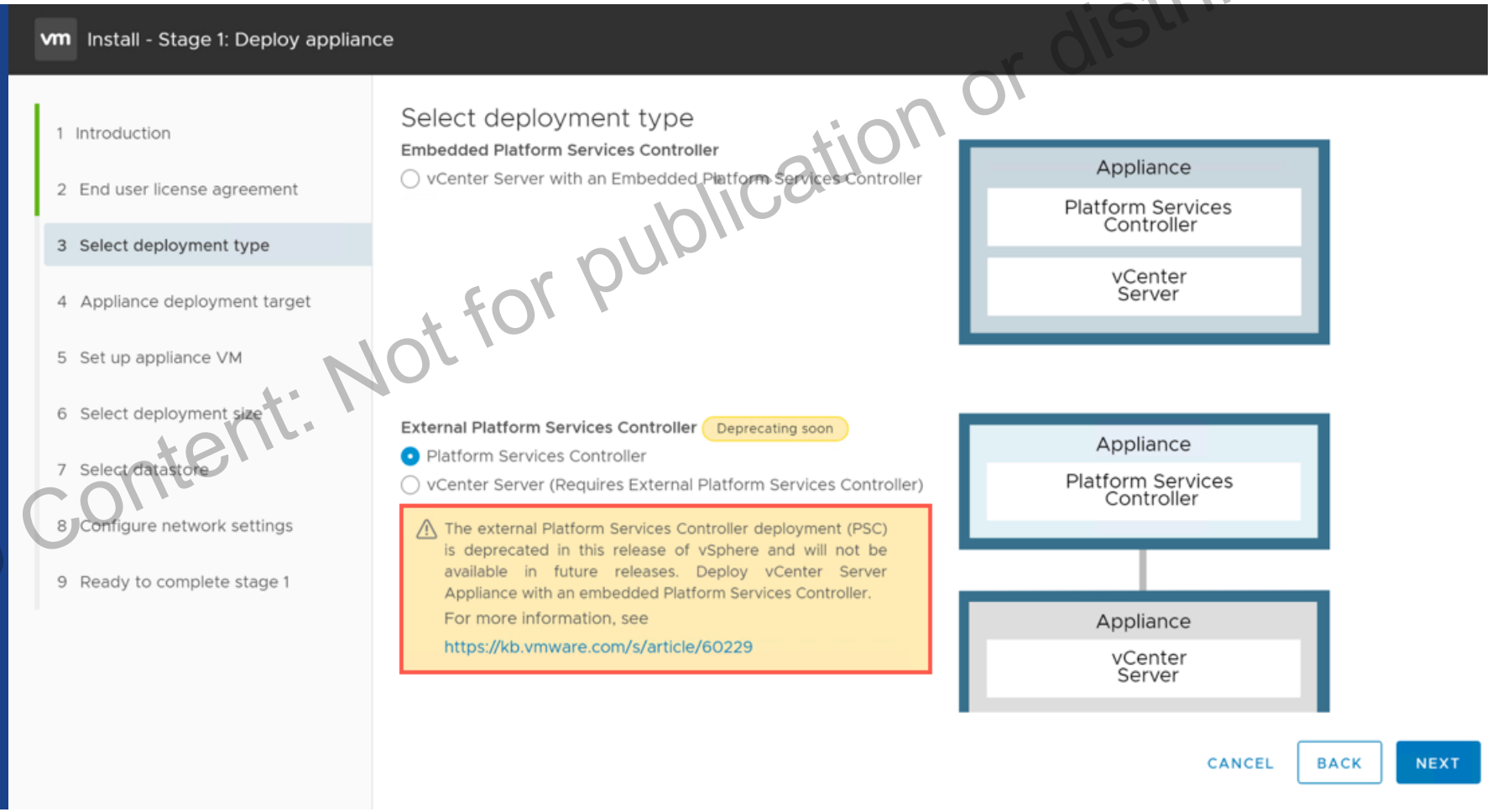
Deprecated PSC Warnings (Installer UI)

External PSC Deployments

- Deprecated as of vSphere 6.7GA
- KB 60229
- Not available in a future vSphere Release (not update release)

Deprecation Warning

- Within UI & CLI



VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

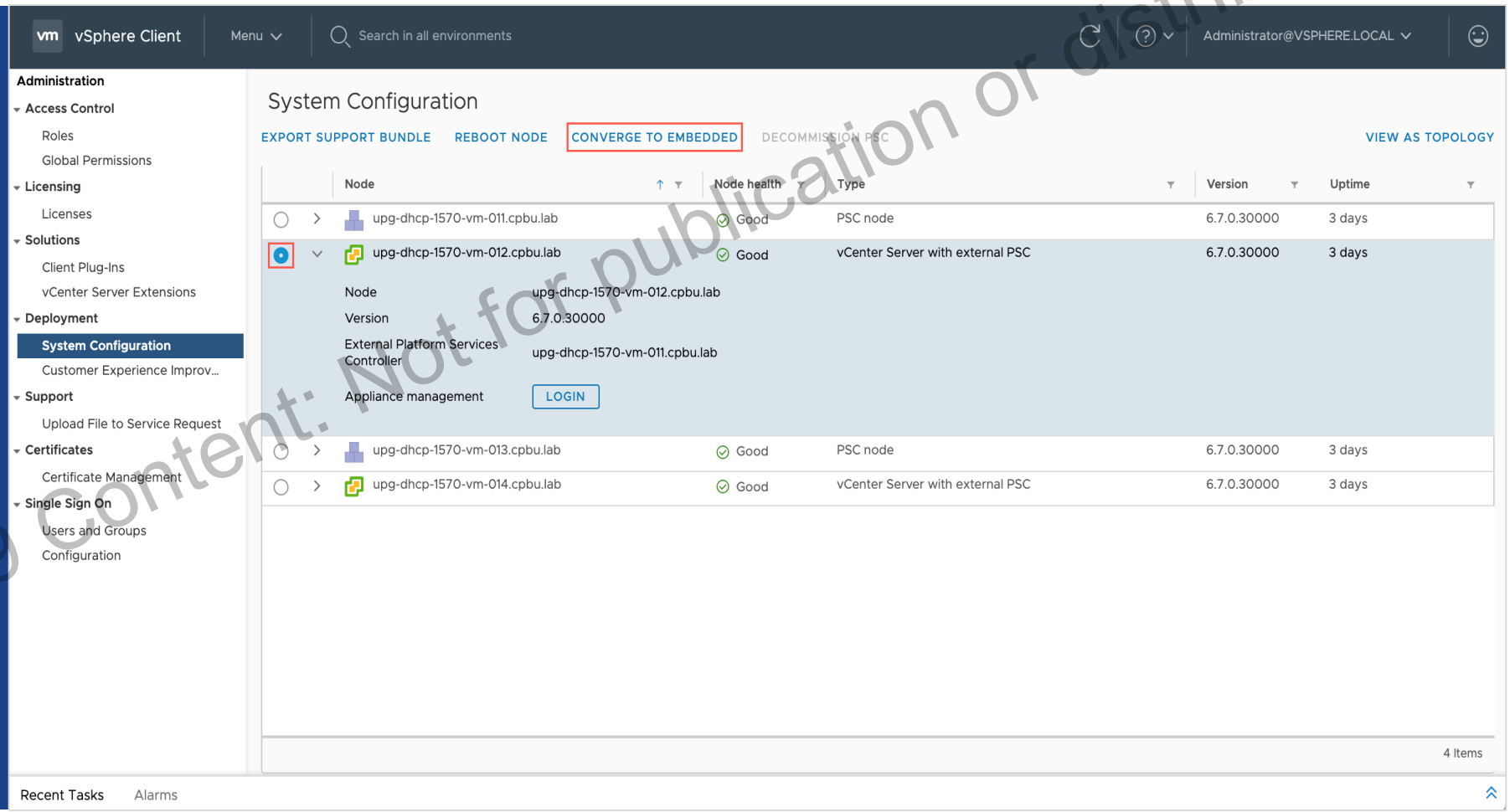
System Configuration Enhancements

System Configuration

- Table View
- Topology View
- VAMI Login

Converge in vSphere Client

- View Replication Partners
- Converge To Embedded
- Decommission PSC

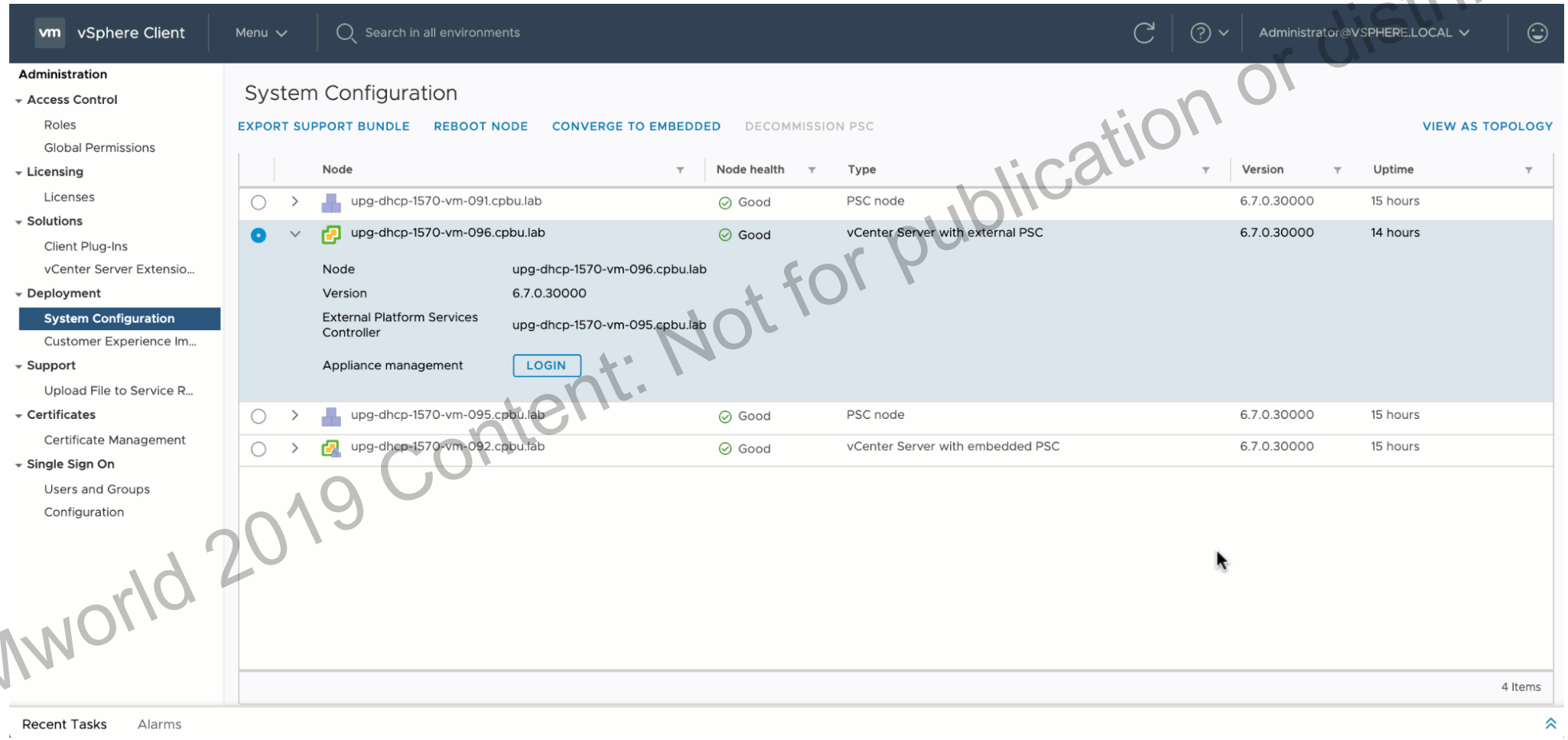


VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Converge Tool UI

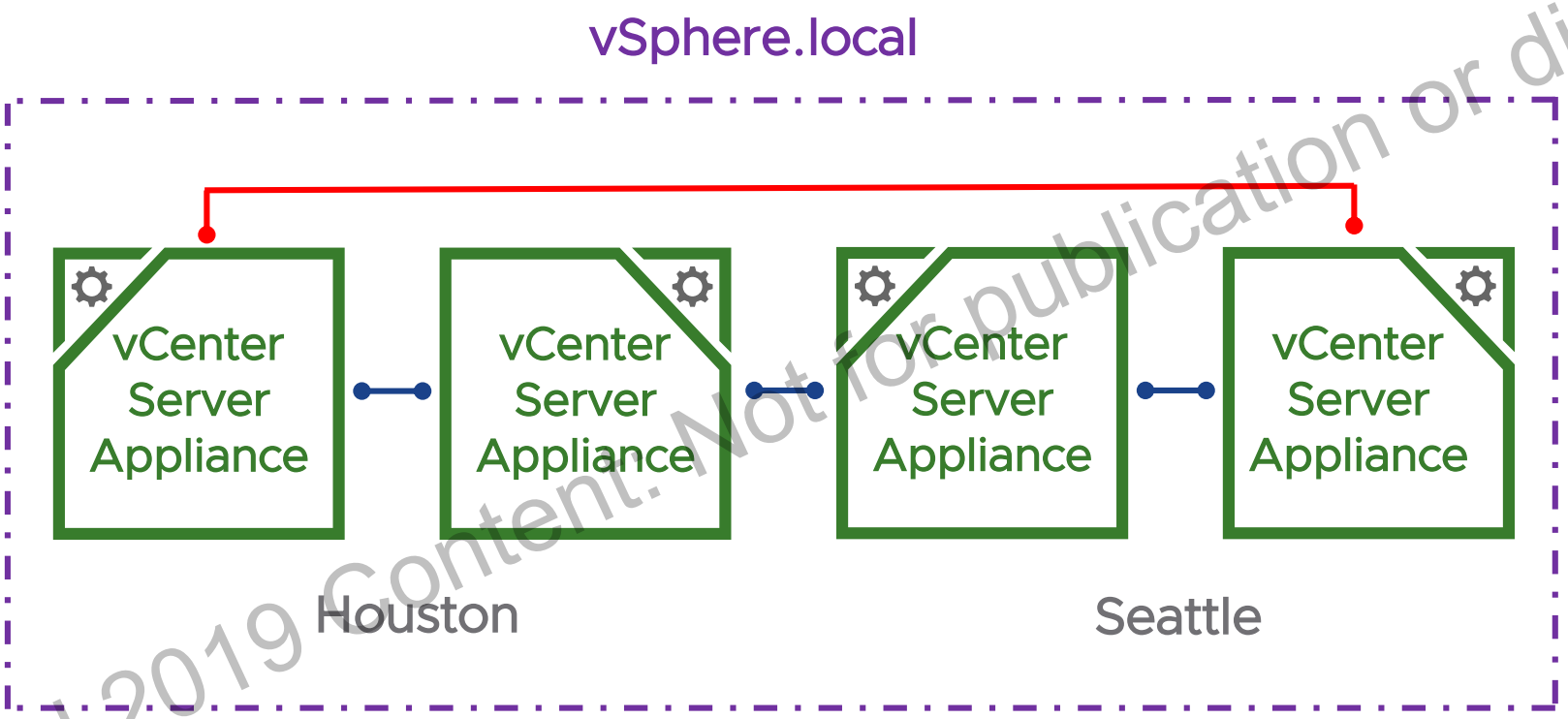
Animated Demo



VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Simplified SSO Architecture



* SSO Sites will be going away and will no longer be required in the future

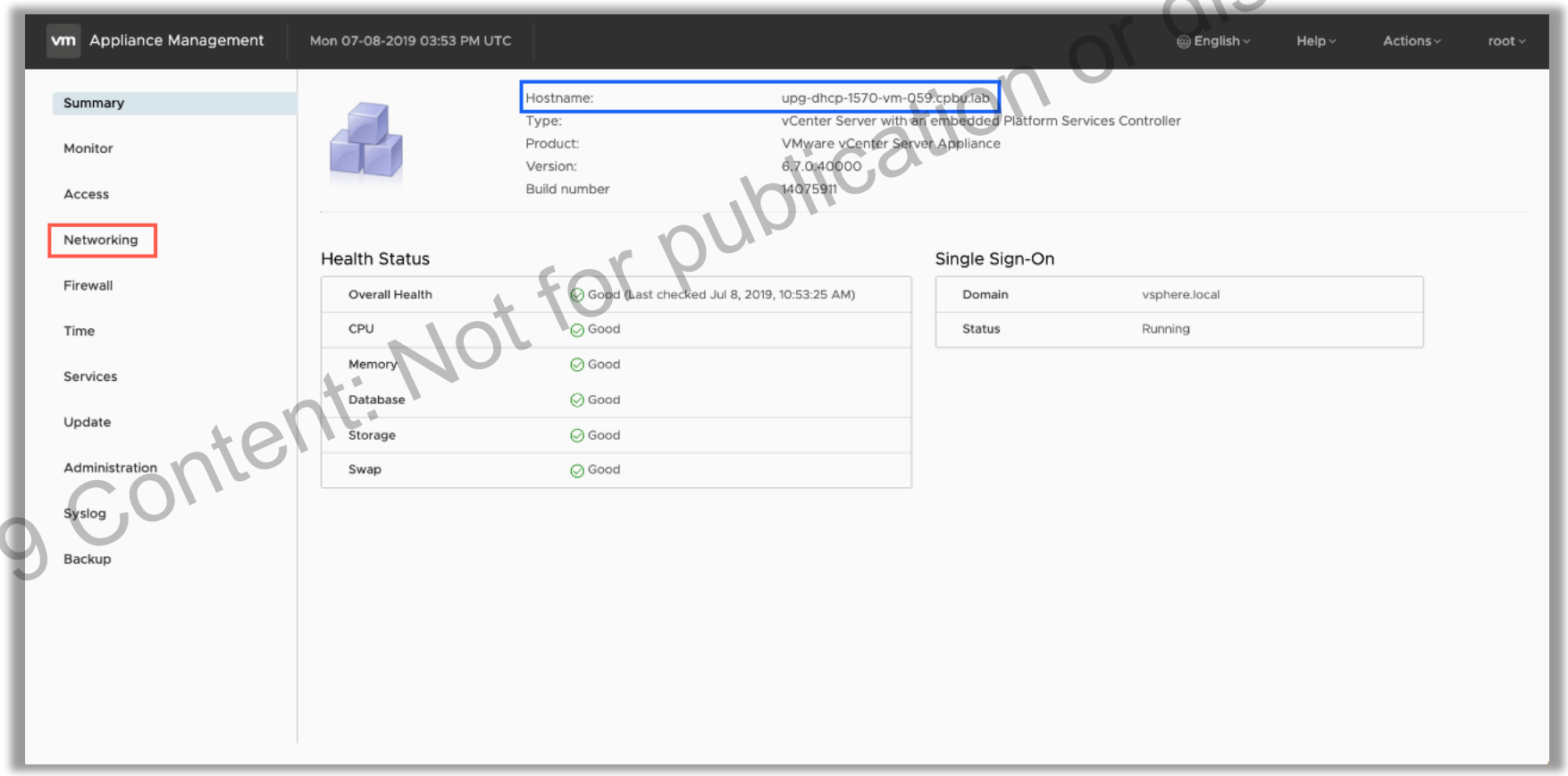
VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Change the FQDN of vCenter Server appliance (VCSA)

New in vSphere 6.7 Update 3

- Edit the FQDN/IP of vCenter Server
- Use Cases
  - Mergers & Acquisitions
  - Migrations from Windows to the Appliance
  - Naming mistakes during deployment
- vCenter Server appliance ONLY
  - Embedded Deployments



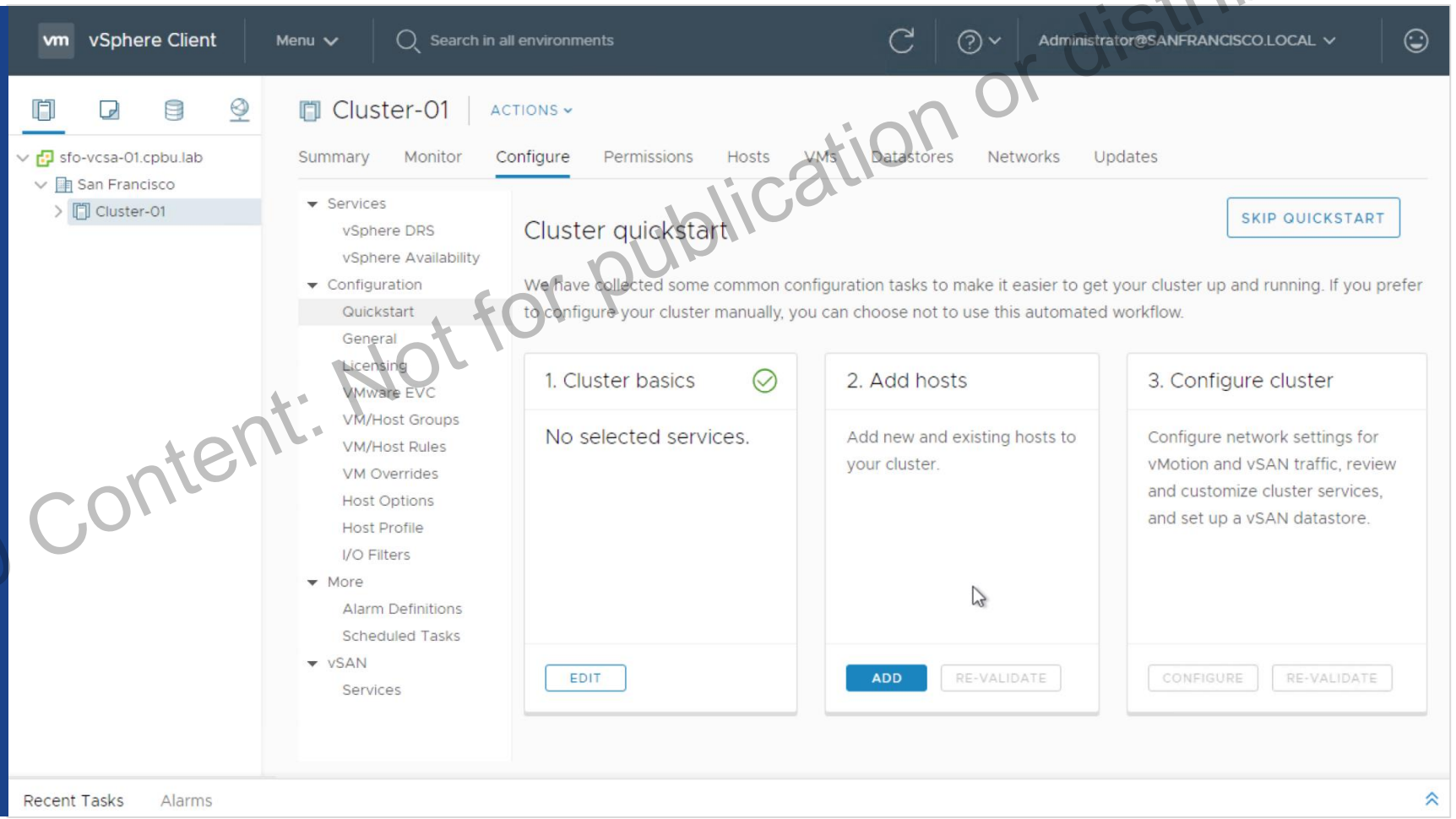
VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Cluster Quickstart

Hyperconverged Cluster Configuration

- Available in vSphere Client during new install or upgrade
- Multi host add
  - Validation
- Create & extend clusters
- Cluster and Network configuration
  - vSAN datastore
  - HA / DRS / EVC
  - VDS
  - NTP



VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Day 30

Are we running at our best?

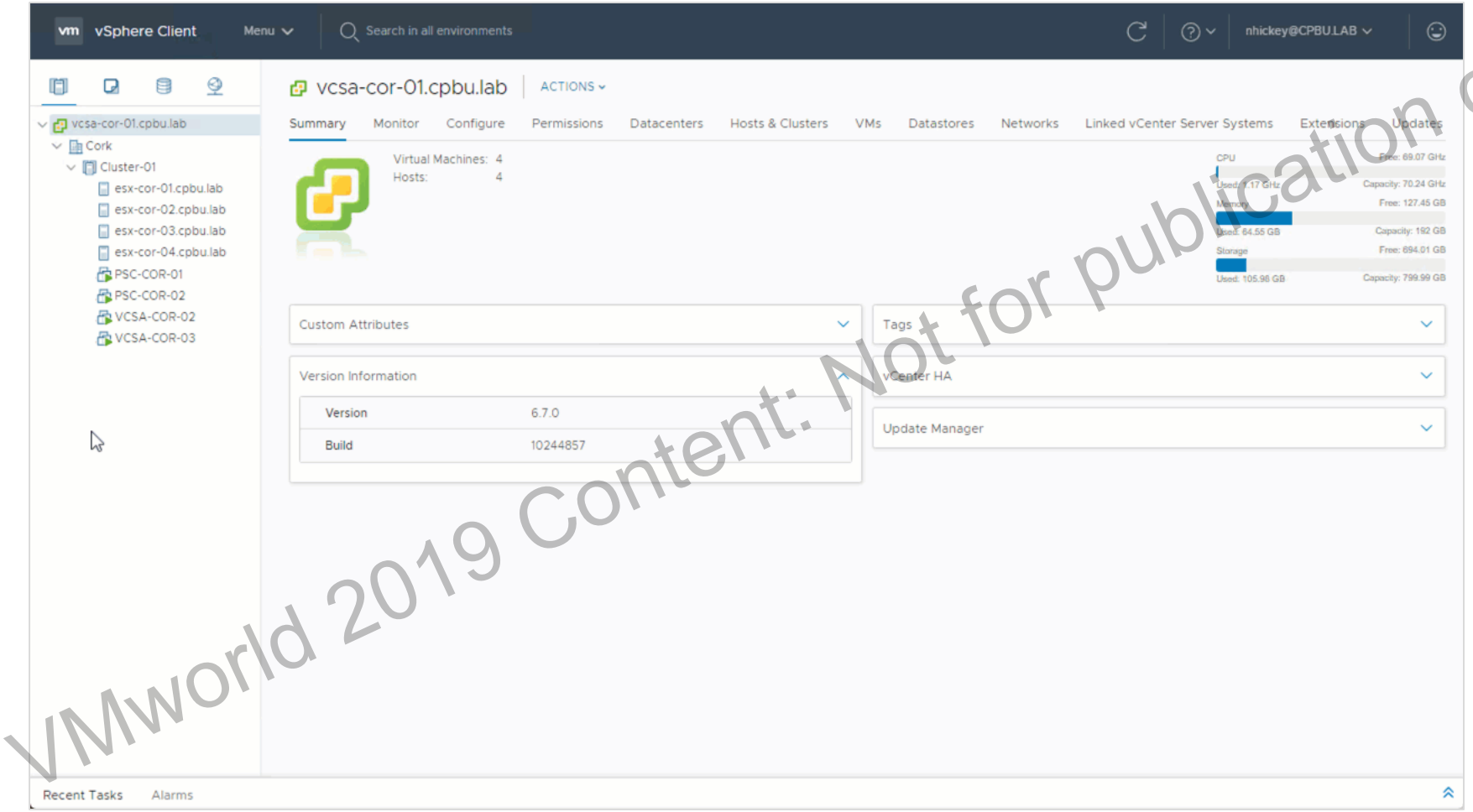
VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

Day 30

Are We Still Healthy?



- Configuration Drift
- Outdated Drivers/Firmware
- Finding issues can be difficult
- vSphere & vSAN Health

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

vSAN and vSphere Update Manager Integration

Update software and firmware in a single maintenance cycle

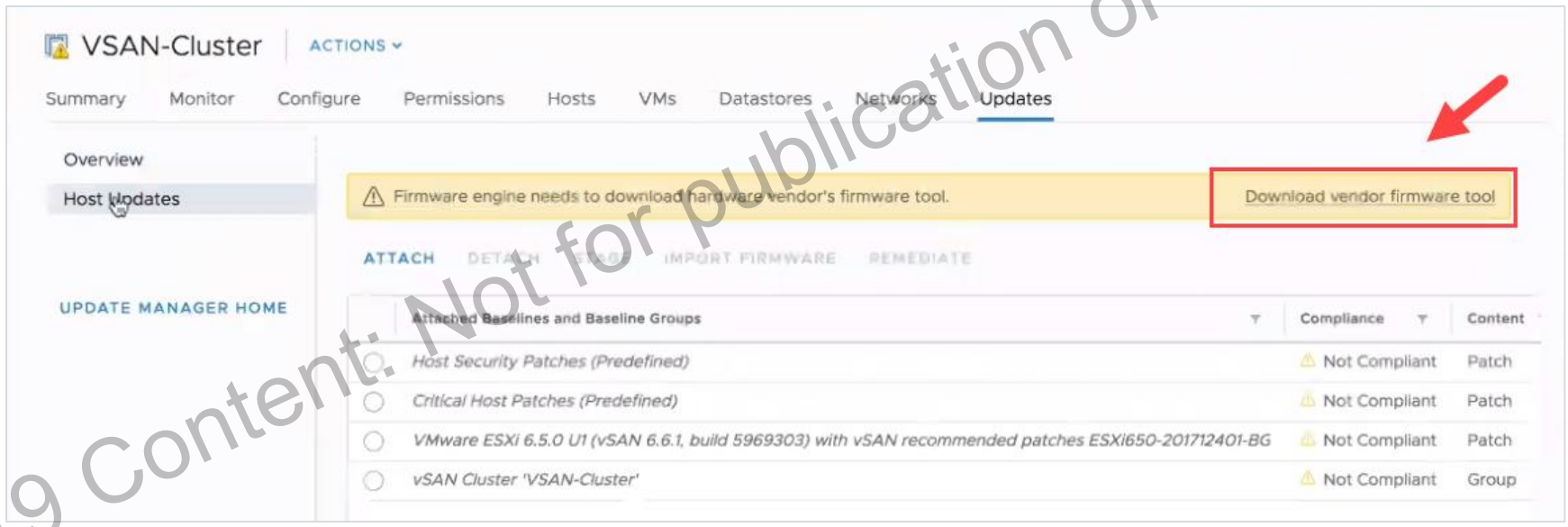
MANAGEMENT

vSAN IO Controller Firmware Tool now integrated into VUM

Retrieves and updates firmware for the vSAN Cluster

Can use vendor or local repositories

Included in system-managed baselines

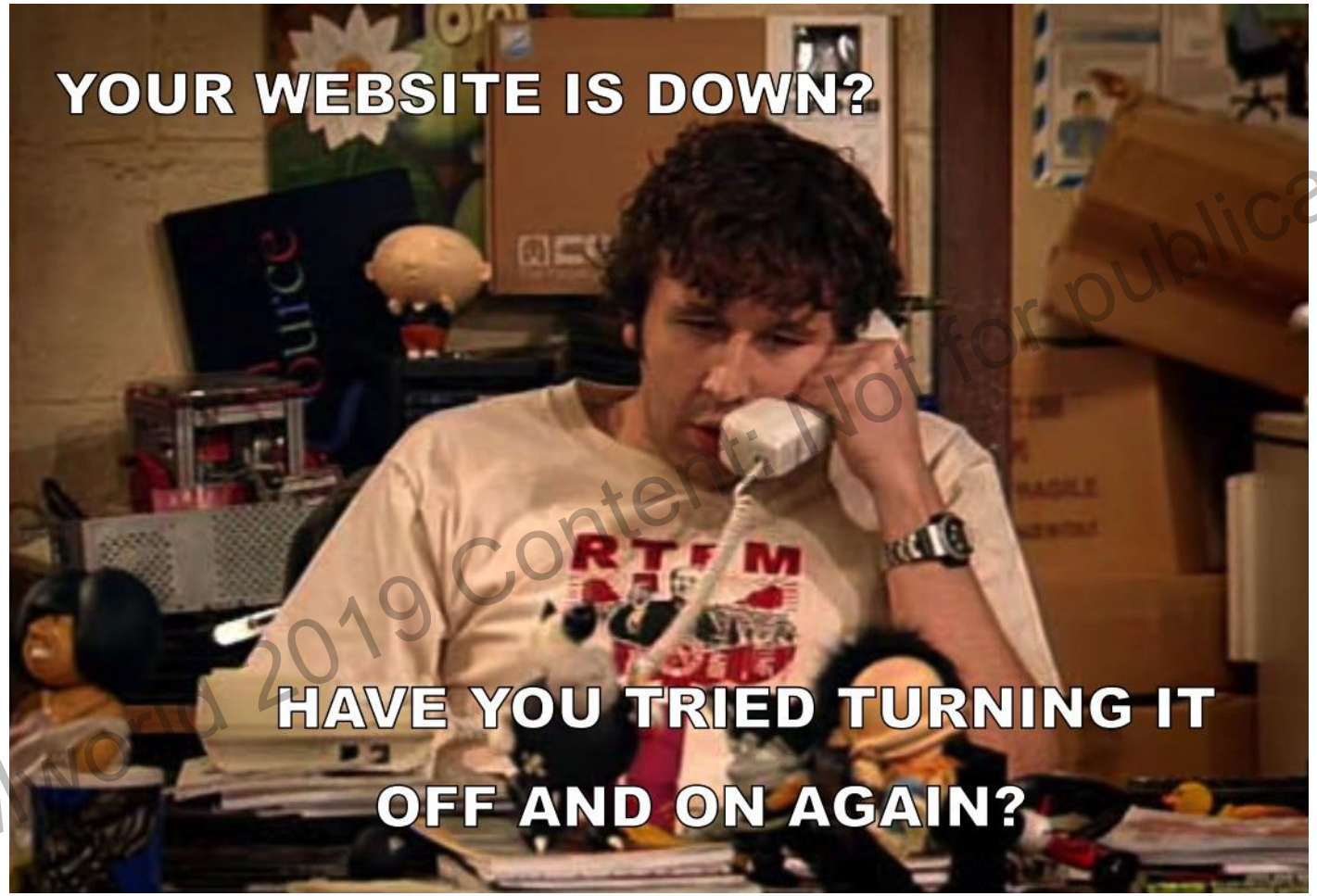


VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Day 180

EVERYTHING IS ON FIRE!



- Status Quo
- Logs
- Configuration
- Health
- History

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Things That Can Impact the Support Experience

Lost Logs

Embedded ESXi Installs

Log Rollover/age out

Communication

A customer in an outage may be stressed and not communicate correctly.

Human memory of when something happened may be poor

Blame games

Context and Completeness

Storage, Networking, Compute fault domains

Did this ever work? History matters

Have to wait for issue to happen to troubleshoot

VMworld 2019 Content Not for publication or distribution

Confidential | ©2018 VMware, Inc.
©2019 VMware, Inc.

Humbug | Home | Support / VAC | Documentation | User: huralikoppia

Environment Browser | Anonymous Support | Reactive Support | Proactive Support | Report | vSAN NimbusClusters | vSAN SystemTest | Documentation

ⓘ Enter a VC UUID to get all the data from VMware Analytics Cloud. By default the data is fetched from production server. Optionally, we can also fetch data from staging server by toggling the switch.

VC UUID: 150875eb-f28e-48c6-8cb5-f7bc0eb4a691

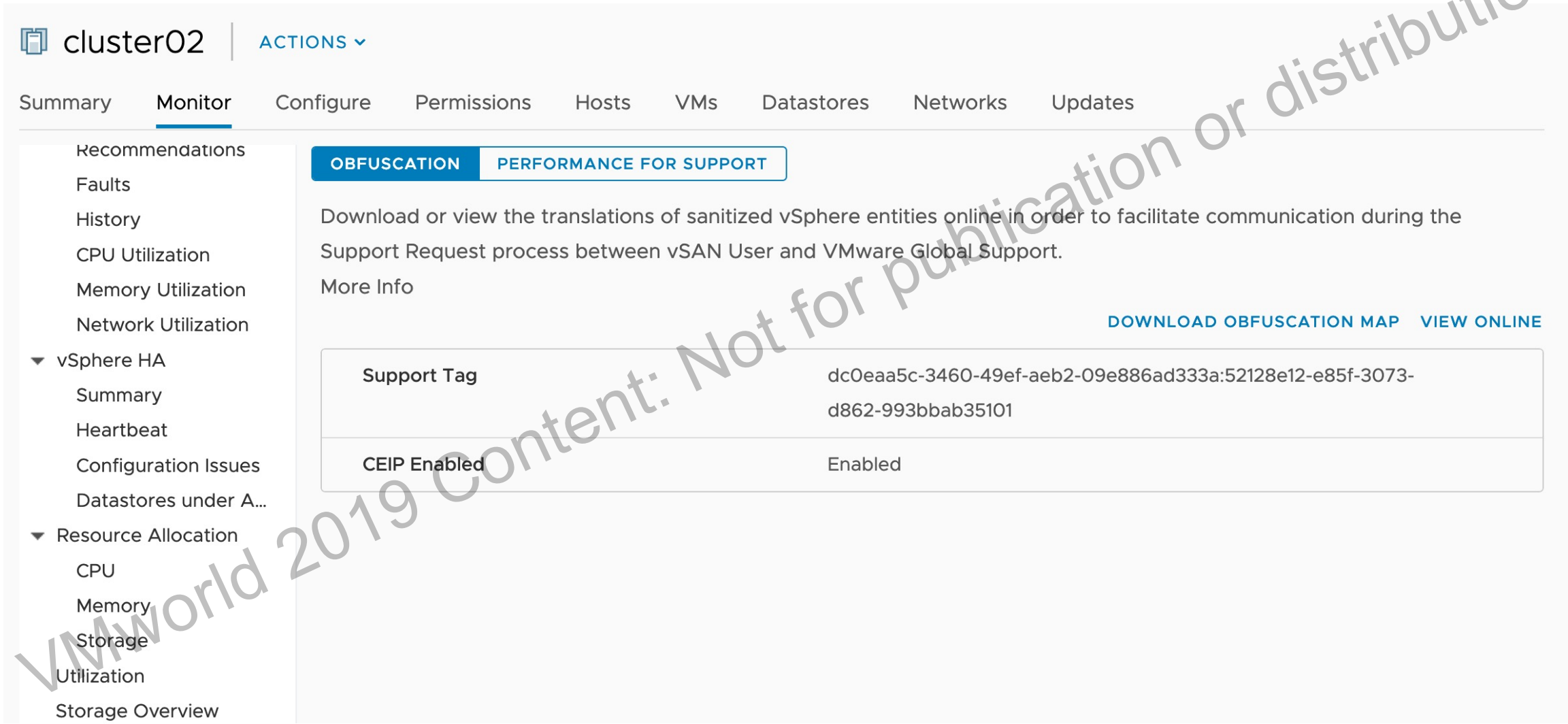
Fetch from VMware Analytics Cloud Staging

LOAD FROM VMWARE ANALYTICS CLOUD

VMworld 2019 Content: Not for publication or distribution

Download Obfuscation Map

Cluster→ Monitor → vSAN → Support



VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Obfuscation Map

Txt file easy to read

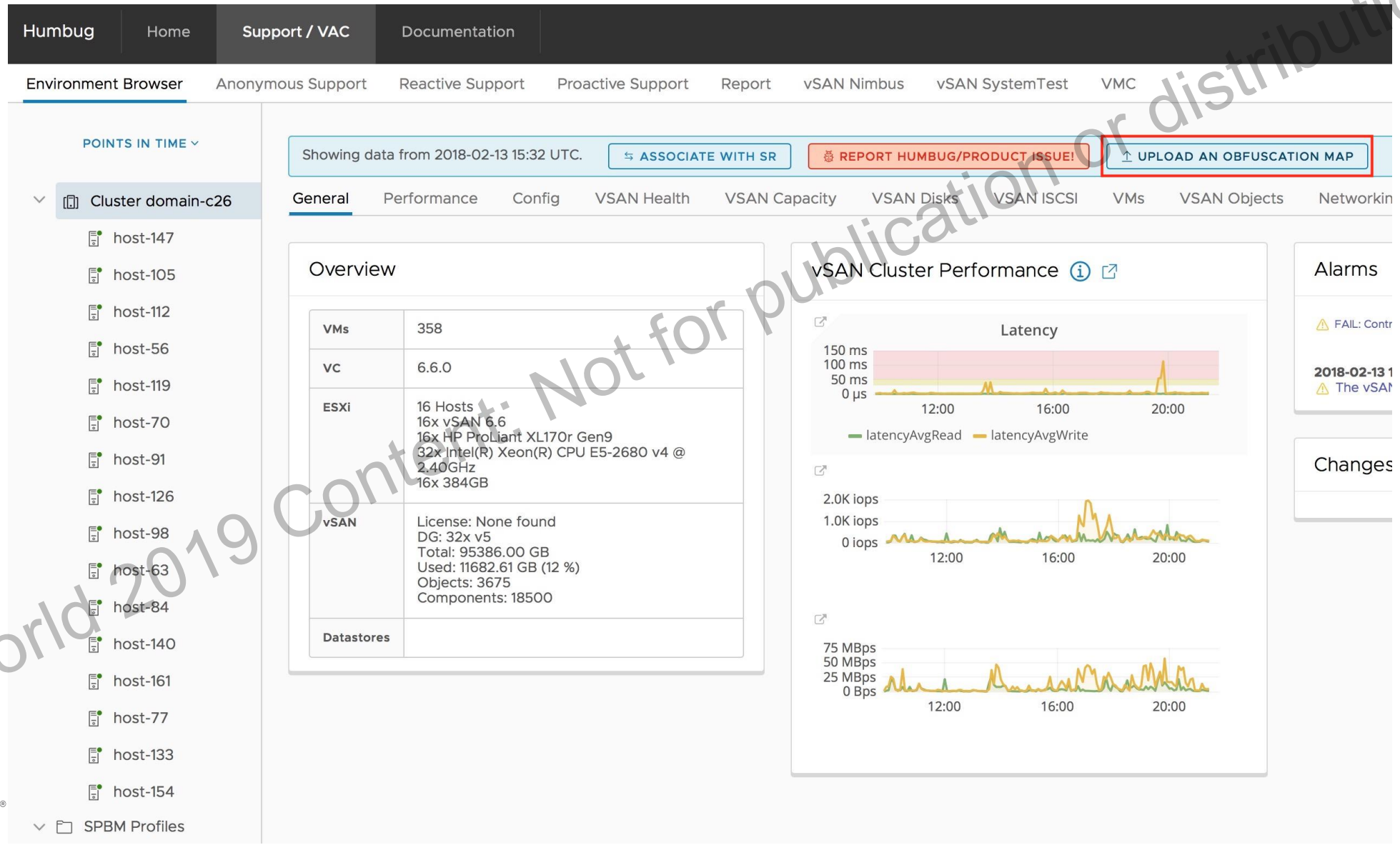

```
"abacus-smithmill-vale": "10.198.16.244",
"abbottstown-fanwood-bumpass": "[vsanDatastore] 2bd4815a-202c-7fdd-99e8-ecf4bbf0c380/VCSA-SFO-01_7.vmdk",
"aberdeen-shohola-cora": "Local ATA Disk (naa.55cd2e404c17b6ce)",
"abmps-senoia-woodhull": "fe80::250:56ff:fe60:3305",
"abstract-mayhew-shavertown": "00:50:56:9c:e4:9c",
"abundant-duxbury-glenham": "00:50:56:6c:2e:20",
"acute-daviston-scranton": "9.2.2.0",
"acute-quogue-harleigh": "Local VMware Disk (mpx.vmhba1:C0:T2:L0)",
"acute-williams-rutherfordton": "[vsanDatastore] 0520835a-bc45-c29e-01f8-ecf4bbf0c1b0/sjc1.vmdk",
"addison-coffeeville-corbin": "10.0.6.1",
"adjacent-lenhartsville-rhodium": "Local ATA Disk (naa.55cd2e404c1664b4)",
"adjacent-millheim-wayside": "NSX_Controller_73036424-aedd-418a-86ec-4d1608e8bf75",
"advance-athol-maitland": "fe80::250:56ff:fe63:ccab",
"afton-fultondale-bradshaw": "10.0.5.7:3260",
"aggregate-bolivar-worcester": "00:50:56:67:b8:69",
"airville-seoul-waltersburg": "ec:f4:bb:f0:c6:30",
"albertson-krypton-devault": "255.255.192.0",
"albion-lawn-colora": "[vsanDatastore] 8072605a-4408-a628-93d9-ecf4bbf0bb38/ibm-spp01_3.vmdk",
"aleppo-metz-plainville": "[vsanDatastore] 2e26a859-1799-66e0-a287-ecf4bbf0af40/nfs01.vmdk",
"algoma-goodspring-counce": "00:50:56:9c:2b:a6",
"allentown-rixford-venango": "ec:f4:bb:f0:bd:aa",
"allenwood-duncanville-aultman": "00:50:56:69:aa:3a",
```


VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

Obfuscation Map

Upload file to Humbug to match



VMworld 2019 Content: Not for publication or distribution

Day 365: Time to Scale

How did we configure this?

It’s been a year

When do we need to add capacity?

Does anyone remember how they configured this?

VMworld 2019 Content not for publication or distribution

©2019 VMware, Inc.

Demo

VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

Additional Resources

VMworld 2019 Content: Not for publication or distribution

vmware®

©2019 VMware, Inc.

HCI1894PU

Virtually Speaking Podcast

The future of IT: How do you fit in?

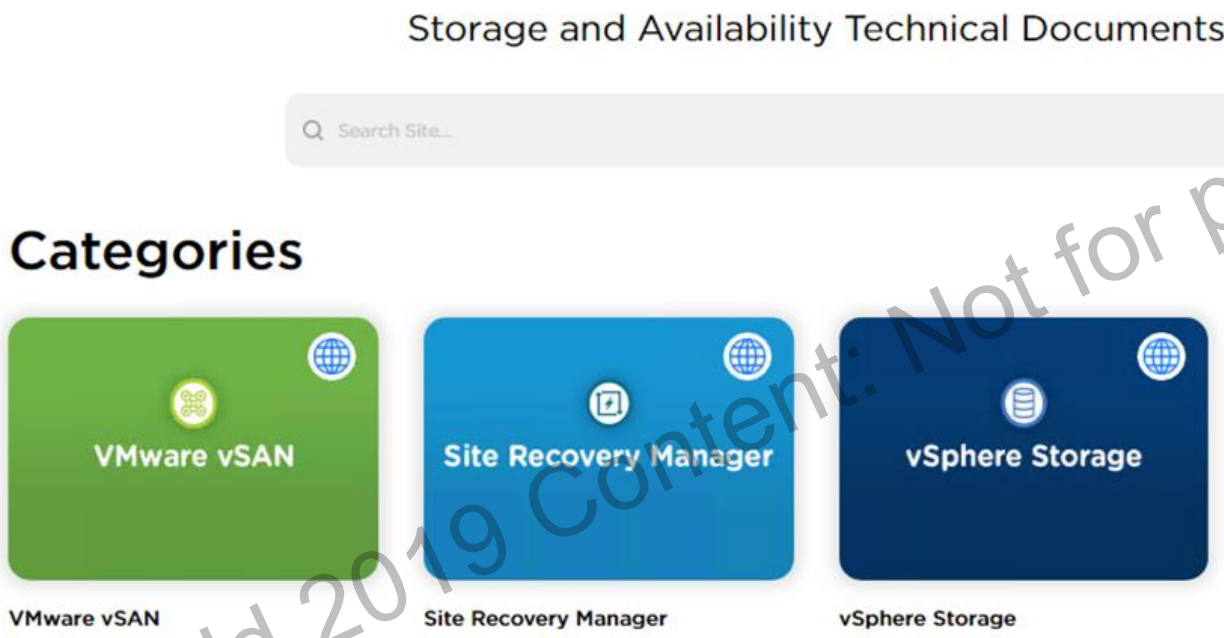
Pete Flecha
@pedroarrow

John Nicholson
@lost_signal

vmware
vmware
VMware Confidential Content - Not for publication or distribution

Storage Hub

https://storagehub.vmware.com



- Repository of vSAN, SRM, and Storage resources including blogs, KBs, videos, and walkthroughs
- Simple to access and a single URL to remember
- Conveniently export resources to PDF for offline viewing

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

vSphere 6.7 Upgrade eBook! (Nigel Hickey & David Stamen)

http://www.vmware.com/go/vsphere67-upgrade-ebook

VMworld 2019 Content: Not for publication or distribution

©2019 VMware, Inc.

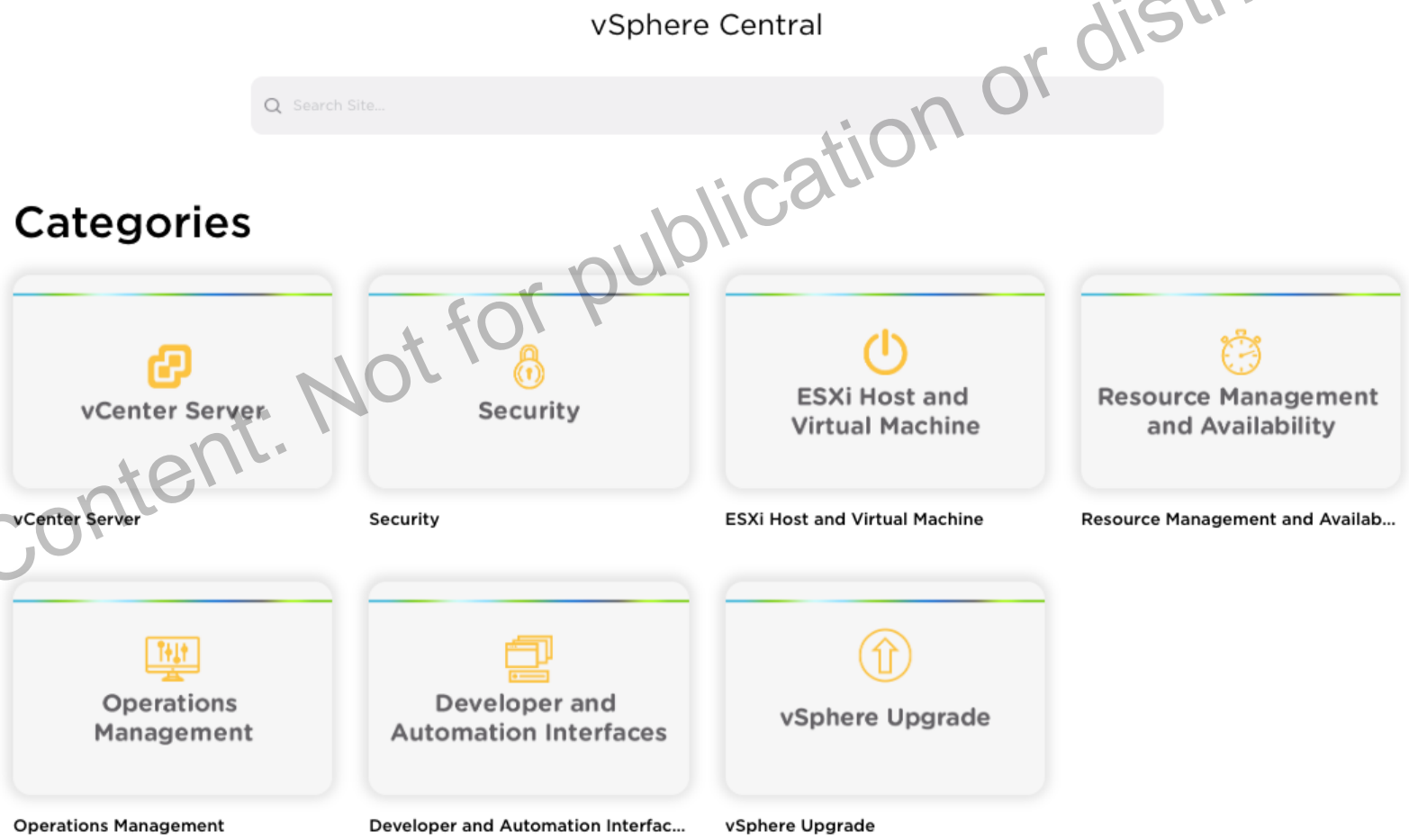
vSphere Central

http://vspherecentral.vmware.com

Curated repository of vSphere resources including blogs, KBs, videos, and walkthroughs

Simple to access and a single URL to remember

Conveniently export resources to PDF for offline viewing



VMworld 2019 Content. Not for publication or distribution

©2019 VMware, Inc.

vmworld 2019

VMware Assessment Lounge

VMworld 2019 Content: Not for publication or distribution

vmware

ASSESSMENT LOUNGE

Moscone West
Level 3 Lobby

HOURS

Sunday,	Aug. 25	8:00 AM – 6:00 PM
Monday,	Aug. 26	10:30 AM – 6:30 PM *
Tuesday,	Aug. 27	10:30 AM – 6:30 PM *
Wednesday,	Aug. 29	8:00 AM – 5:00 PM
Thursday,	Aug. 30	9:00 AM – 3:00 PM

Closed for keynote 9:00 AM -10:30 AM

- vSphere Assessment Tool (vSAT)
- Hyper-converged Infrastructure (HCI)
- Virtual Network Assessment (VNA)
- vSphere Optimization Assessment (VOA)

VMworld 2019 Content: Not for publication or distribution

vmware®
©2019 VMware, Inc.

vmworld 2019

Please Fill Out Your Survey

Take a survey and enter a drawing for a VMware store gift card.

VMworld 2019 Content: Not for publication or distribution

vmware

vmworld 2019

Thank you!

VMworld 2019 Content: Not for publication or distribution

vmware