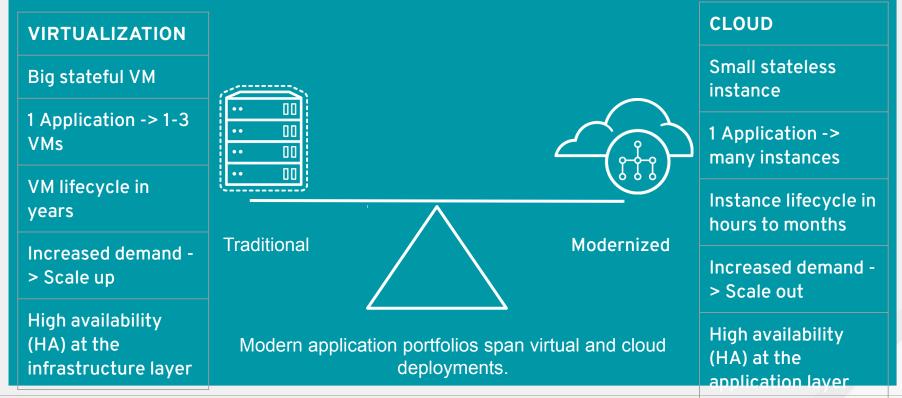


Red Hat Virtualization THE NEXT GENERATION OF IT OPTIMIZATION

PIER LUIGI QUIDACCIOLU Solution Architect pquidacc@redhat.com



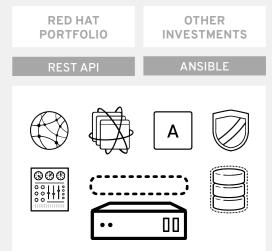
BALANCING INNOVATION, IT OPTIMIZATION MOST CUSTOMERS NEED VIRTUALIZATION AND CLOUD







RED HAT VIRTUALIZATION OVERVIEW



RED HAT VIRTUALIZATION

Centralized management for the KVM hypervisor, as well as compute, network, and storage resources

Enterprise features to support business-critical applications

Cross-portfolio integration, APIs, and software development kits (SDKs) to enable automation

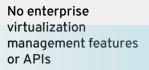
Red Hat Virtualization is built on Red Hat Enterprise Linux + KVM



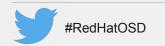


RED HAT ENTERPRISE LINUX + KVM

Basic virtualization

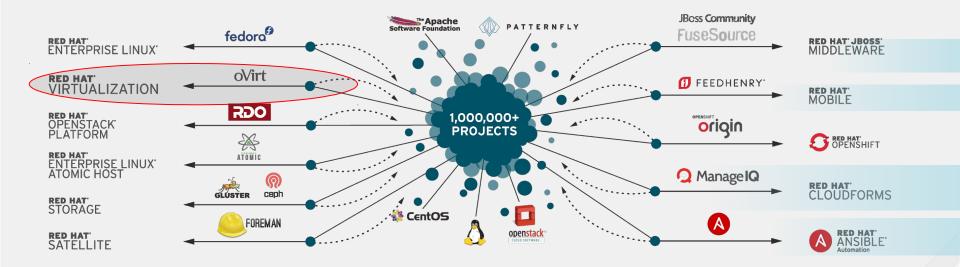


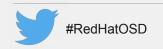
Limited number of VMs allowed





OPEN SOURCE PROJECT TO SUPPORTABLE PRODUCT







RED HAT VIRTUALIZATION MATURITY

RED HAT ENTERPRISE VIRTUALIZATION BEATS VMWARE on the SPECvirt_sc2010 benchmark on both speed and scale		RED HAT ENTER VIRTUALIZATIO Windows guests Ni collaboration with	N 3.1, 3.2 UMA	RED HAT ENTERPRISE VIRTUALIZATIO V-2-V migration to		RED HAT VIRTUALIZATION 4.1 Ansible integration Native SDN		
	2010		2013		2015		2017	
2009 QUMRAN ACQUISIT	ET	2012 RED HAT ENTER VIRTUALIZATIO More solution part RESTful API Memory overcomr	N 3.0 ners	2014 RED HAT ENTER VIRTUALIZATIO OpenStack Neutron Hot Plug CPU Affin management IBM Power support	N 3.3, 3.4 n integration iity	2016 RED HAT VIRTUALIZATIO 10th product releas		2018 RED HAT VIRTUALIZATION 4.2 Native DR New metrics Updated UI Cisco ACI





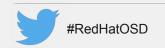
BY THE NUMBERS



Hundreds of new features across Red Hat Enterprise Linux, KVM, oVIRT.

Bug Fixes and Feature Requests since 4.1.0:

- 1,850 BZs closed
- 350 features (RFEs) delivered





MAJOR THEMES



- Ease of use
- Ease of automation
- Tighter integration with Red Hat Portfolio





MANAGEMENT INTERFACES

	•••
₹	

RED HAT VIRTUALIZATION MANAGER

- Designed for large scale (500+ hosts and 5,000+ VMs)
- REST API to integrate with Red Hat portfolio, third-party applications, backup and recovery software
- Can be integrated with existing infrastructure active directory, Red Hat CloudForms®, OpenStack, etc.



COCKPIT

- Included as part of Red Hat Virtualization Host image
- Used to configure networking, storage, tuning, subscriptions, and other aspects of the virtualization host
- Can be used to deploy Red Hat Virtualization in high availability





NEW USER INTERFACE



PATTERNELY

Get to important information faster, learn fewer tools, streamline operations



- Same PatternFly library as Red Hat portfolio
- At-a-glance, drill downs of the entire environment
- Easy, intuitive navigation
- Reduces learning curve
- Faster

WHICH USE CASES?

#RedHatOSD









(3)

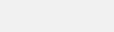
HYBRID AND MULTIHYPERVISOR



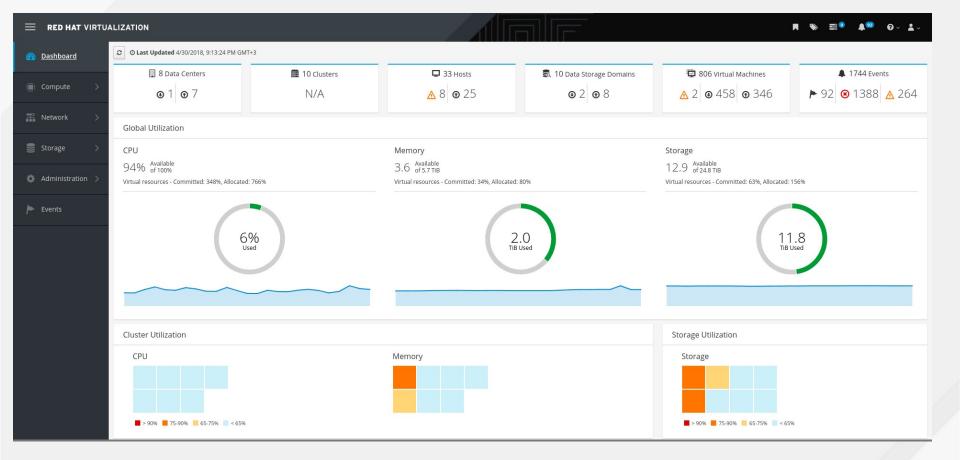
TECH WORKSTATIONS

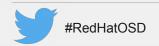






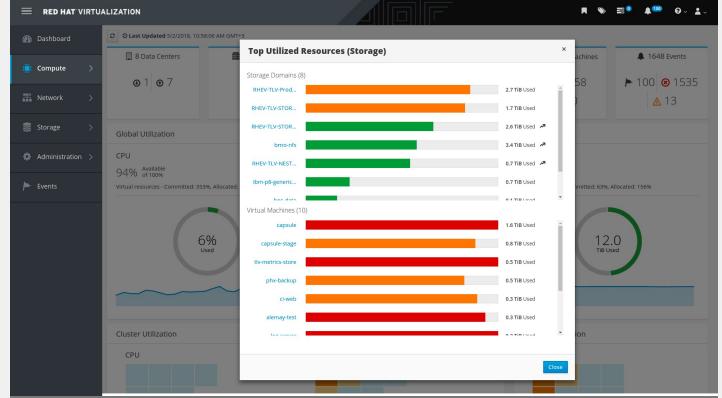








NEW USER INTERFACE



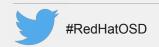
#RedHatOSD



Save your location as bookmark

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#RedHatOSD

🤍 redhat.

IMPROVED EASE OF USE

Spend less time on tasks and more time for initiatives

















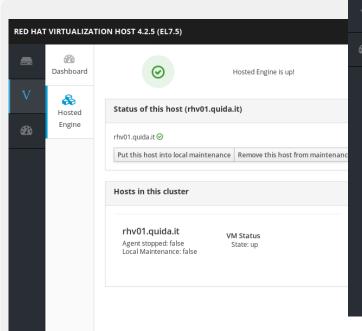




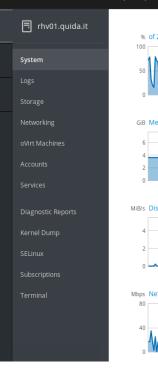


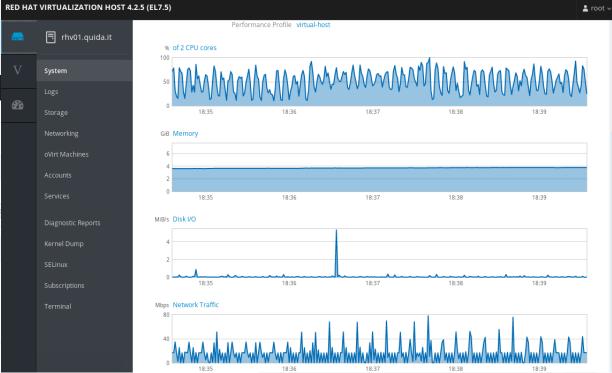


COCKPIT



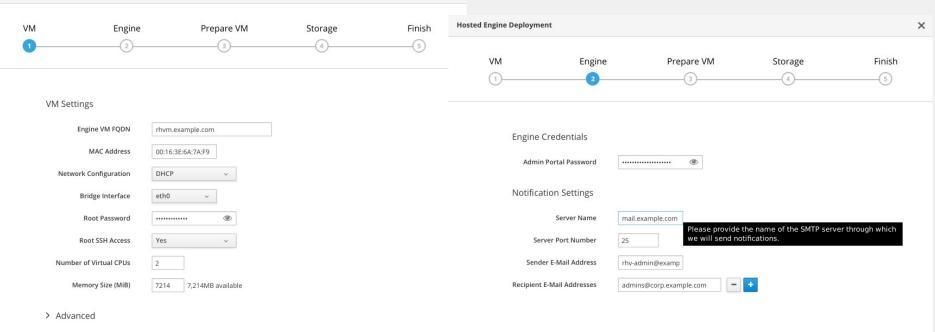
#RedHatOSD

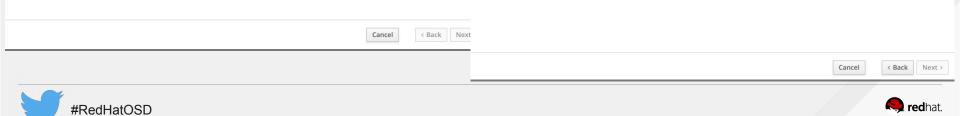










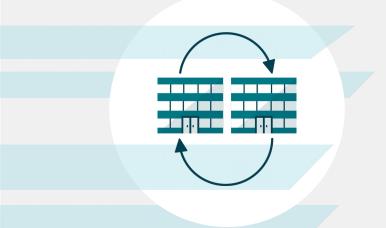


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NATIVE DISASTER RECOVERY

Business continuity without vendor lock-in



WHICH USE CASES?



ORMANCE (@)



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4

TECH WORKSTATIONS









- Active/active cluster allows virtual machines to migrate to secondary site if primary site is unavailable.
- Integration with a specific storage vendor is not required.
- Failover and failback is automated with Red Hat Ansible Automation.

Supports Block and file based storage

NATIVE SOFTWARE DEFINED NETWORK (SDN)

PROVIDES NATIVE, ISOLATED NETWORKING FOR VIRTUALIZED WORKLOADS



- Neutron compatible API for OVN
- Mix and match host networking connectivity and isolated networks
- Full control of network, subnets, ports and routing

 Integrated with CloudForms, Cloud network management and OpenStack

WHICH USE CASES?





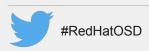
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CISCO ACI INTEGRATION

Integrated and automated SDN and distributed security policies

- Scalable network virtualization
- Distributed security policies
- Micro-segmentation

(Q)

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 Ability to automate Cisco ACI with Red Hat Virtualization using Red Hat Ansible Automation

DEV AND TEST

ENVIRONMENTS

Hear more about it @ "Running RHV Integrated w/ Cisco ACI SDN" - Room 2020 on Thursday 5/10 , 2:00 - 2:20 PM

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HYBRID AND

MULTIHYPERVISOR

TECH

WORKSTATIONS

4

SERVER

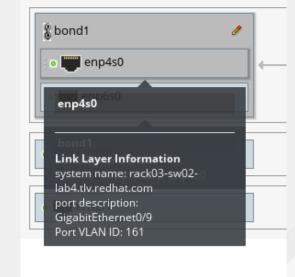
CONSOLIDATION

WHICH USE CASES?

SENSITIVE

#RedHatOSD

PERFORMANCE



- Pilling



.

CISCO



METRICS AND LOGGING

Real-time reporting and visualization for improved business efficiency



WHICH USE CASES?

#RedHatOSE









HYBRID AND MULTIHYPERVISOR







INTEGRATION W/OPENSHIFT METRICS STORE

- **Elasticsearch** a search and analytics engine with a REST/http interface
- Fluentd Data collector and shipper that unifies the metrics and logs data
- Kibana Visualize trends in real time, slice and dice the data from Elasticsearch dynamically

 - **Collectd** Simple and powerful daemon that gathers metrics from various sources

System Dashboard 🕴

#RedHatOSD

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HIGH-PERFORMANCE VM TYPE

Streamline consistent tuning process for virtualization administrators



- Enable passthrough of host CPU to the VM
- Enable input/output (I/O) threads, num of I/O threads = 1
- Set the I/O and emulator threads pinning topology
- Disable non-critical devices (sounds, USB, balloon)
- Define as headless (no graphics device)

WHICH USE CASES?







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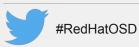
HYBRID AND MULTIHYPERVISOR



TECH WORKSTATIONS SERVER CONSOLIDATION

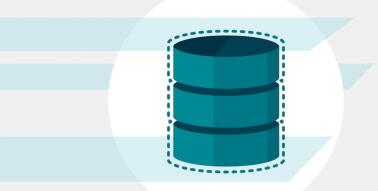


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DISK AND VM UPLOAD/DOWNLOAD IMPROVEMENTS

Storage deployment flexibility for virtualization architects



- Download snapshots, not just disks
- Faster uploads via direct uploads to hosts
- Efficient upload with sparse support
- VM import and export as Open Virtualization Appliance (OVA) files
- Upload ISO disk images to data domain
 - no need for a dedicated, NFS-based, ISO domain anymore!

WHICH USE CASES?







HYBRID AND MULTIHYPER

(💱)



TECH WORKSTATIONS



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SUPPORT FOR CEPH STORAGE via iSCSI

Storage deployment flexibility for virtualization architects



- Red Hat Ceph[®] Storage iSCSI target tested and certified
- Use as a storage domain for virtual machines
- Enables consistent hybrid cloud deployments on RHV and Red Hat OpenStack Platform

WHICH USE CASES?















RHEL 7.5 SUPPORT



#RedHatOSD

Support the latest RHEL release and its features, inc.:

- Latest CPUs and machine-type support.
- VDO for dedup and compression (integrated in RHHI)
- Kernel address space layout randomization (KASLR)

Hear more about RHHI and VDO @ "Red Hat Hyperconverged Infrastructure: Your open hyperconverged solution"

- Room 2003 on Tuesday 5/8 from 4:30 PM



VIRTUAL GRAPHICS PROCESSING UNIT

vGPU powered technical workstation support for AI, big data, rich graphics



- NVIDIA (GRID and Quadro vDWS)—maintainer of mediated device framework (mdev)
- Intel (GVT-G)–driver development and reviewer for mdev
- Support for Linux and Windows

Target markets:

- Oil and gas
- Energy

- Sciences and education
- Manufacturing and engineering
- Animation
- Gaming

SENSITIVE

#RedHatOSD





TECH

WORKSTATIONS

SERVER CONSOLIDATION



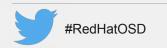
RED HAT ANSIBLE AUTOMATION



For all available objects in RHV exists a Ansible Module.

- Affinity groups
- labels
- clusters
- data centers
- disks
- external providers
- groups
- host networks
- host power mgmt
- host storage
- hosts
- MAC pools
- networks

- NICs
- permissions
- quotas
- tags
- users
- scheduling policies
- snapshots
- storage connections
- storage domains
- templates
- VM pools
- VMs...





- - -

 name: Create a template from qcow hosts: localhost

varsı

engine_url: https://rhvm-engine.example.com/ovirt-engine/api
engine_user: admin@internal
engine_password: 123456
engine_cafile: /etc/pki/ovirt-engine/ca.pem

dcow url: https://images.repo.example.com/images/mvvm.dcow2

```
template_cluster: production
template_name: rhel7_template
template_memory: 4GiB
template_cpu: 2
template_disk_size: 10GiB
template_disk_storage: mydata
```

roles:

- oVirt.image-template



- Credentials
 (or store in Ansible Vault)
 - 2. Template definition (and URL to download from)



RHOSP UNDERCLOUD & OPENSHIFT ON RHV



PNT DEVOPS TEAM

'UpShift' - platform for hosting containerized workloads.

Using *RHV* as IAAS, hosting both *RHOSP* Undercloud and *OpenShift* masters on VMs.

RHV	RHOS undercloud Controllers	$ \begin{array}{c} \hline \hline$	BARE-METAL
OpenShift		ose-application node	<u>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u>
STORAGE		Ceph-RBD/S3	



RHHI-1.5

- Deduplication and compression support with VDO
- Cockpit
 - Scale using the user interface
 - Manage your storage and virtual machines
- Admin portal
 - Convert virtualization hosts
 - Configure disaster recovery with failover and failback
 - Upgrade using the user interface

(E)

HYBRID AND

• Deploy on a single node

 (\mathbf{Q})

RHV-4.2.7

- Support of private VLAN by mean of filter for VNIC profiles (NWFILTER), `clean-traffic- gateway`
- Guest Time Synchronization.

TECH

WORKSTATIONS

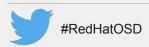
4

- qemu-img out of order writing. Importing, moving or copying large disks to preallocated storage, can be up to 6 times faster.
- KVM Sparseness is now supported to preserve origianal VM image size during import (thin provisioning).

SERVER

CONSOLIDATION

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WHICH USE CASES?

PERFORMANCE

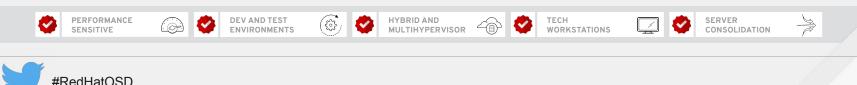




HIGHLIGHTS BEYOND RHV 4.2

- Storage and DR
 - Cinder Integration
 - Incremental Backup
- Multi-Arch Support
 - Power 9, z Systems (TBD), ARM
- Infrastructure Migration Support
 - CloudForms / IMS
- Portfolio Enablement
 - OpenStack Control Plane on RHV
- Support for hybrid, cloud-native application deployments and workloads
 - Service-based shared components (networking, storage, Glance...)
 - Kubevirt as part of OpenShift/CNV/RHV.Next

WHICH USE CASES?







GRAZIE PER L'ATTENZIONE

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IMS Infrastructure Migration Solution

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DISCOVERY AND ASSESSMENT OF YOUR MIGRATION

vSphere

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SETTING UP A RHV ENVIRONMENT SIZED FOR YOUR MIGRATION

vSphere

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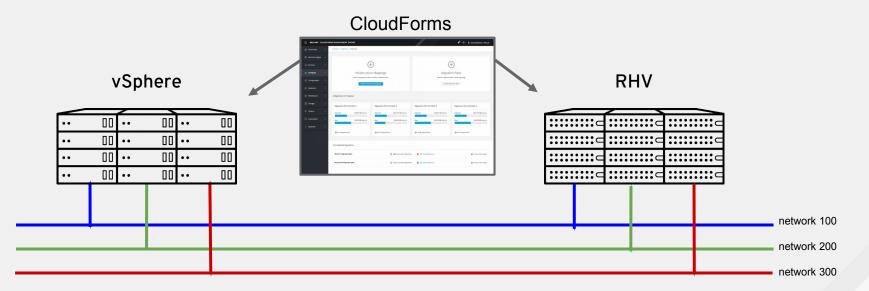


RHV

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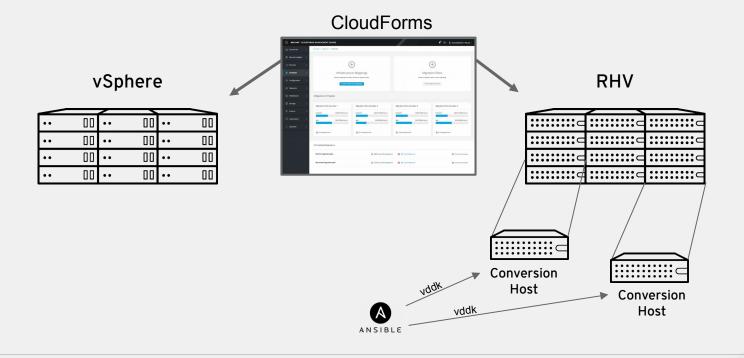


INSTALL CLOUDFORMS AND CONFIGURE BOTH PROVIDERS



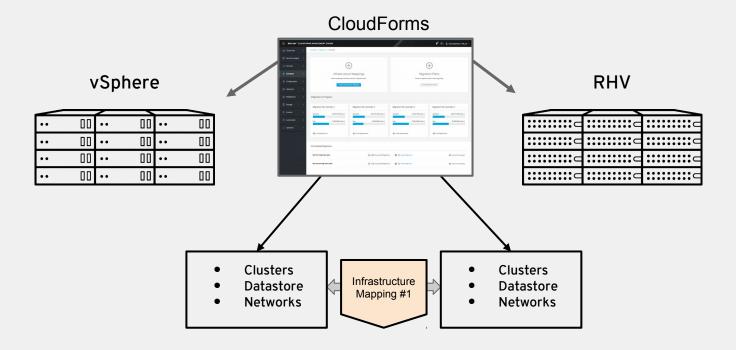


SETUP MULTIPLE CONVERSION HOSTS



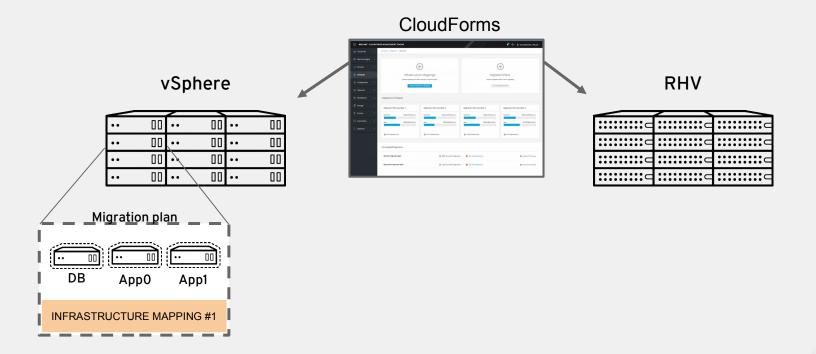


USE THE INFRASTRUCTURE MAPPING WIZARD TO MAP BOTH SOLUTIONS



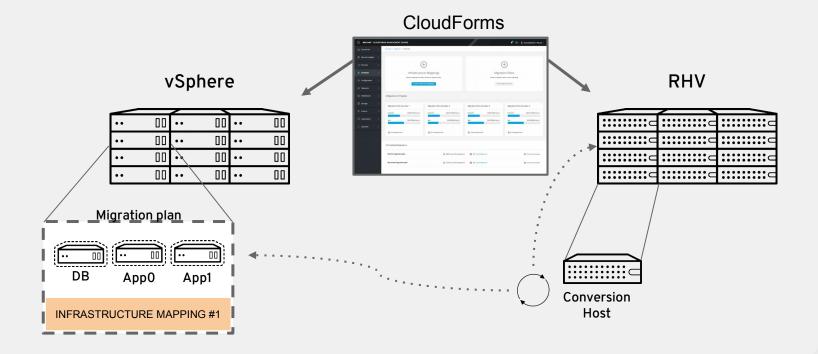


CREATE YOUR MIGRATION PLAN ATTACHED TO AN INFRASTRUCTURE MAPPING

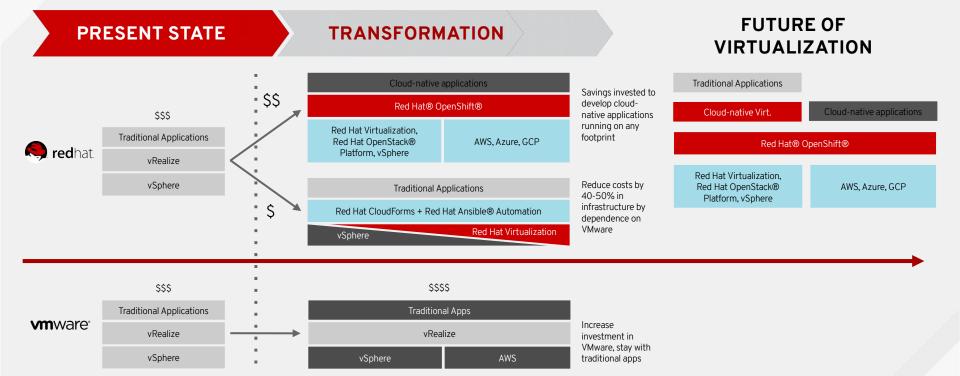


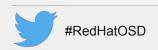


LAUNCH YOUR MIGRATION













GRAZIE PER L'ATTENZIONE

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