

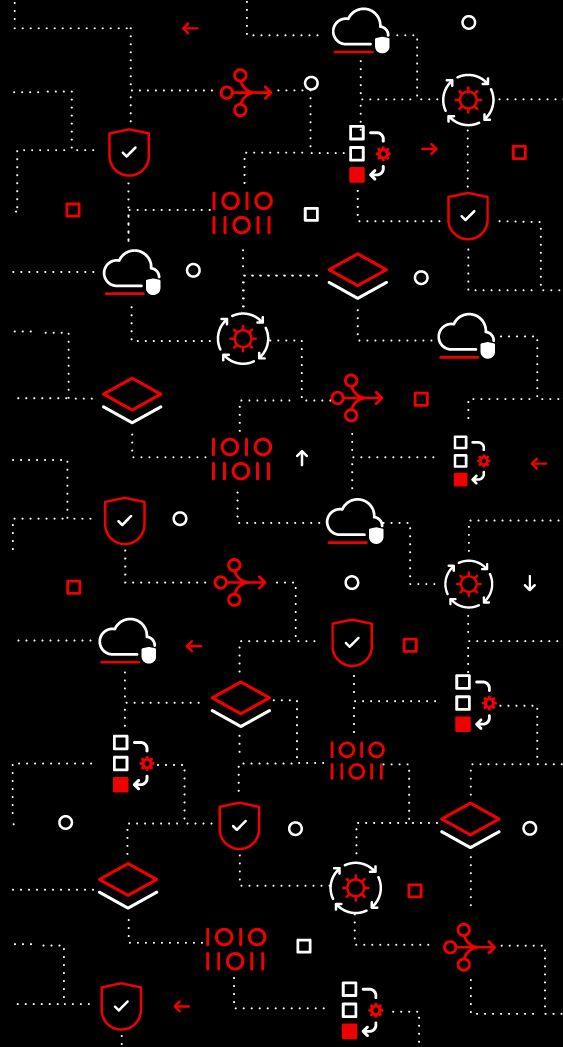
Red Hat OpenShift Virtualization

VMA WorkShop Day Three

.... almost done :-)

Alfred Bach

Principal Learning and Development Instructor



Show Time @
10:30 !!

Recap Agenda Day 1

09:00 - 10:15

- Welcome and Introductions
- Sales Motion and Getting the Technical Win (GTM Strategy)
- OpenShift Virt Overview
- OpenShift Virt - Storage
- OpenShift Virt - Networking
- Access to the Hands-On Lab

10:30 - 12:00

- LAB - OpenShift Virtualization Basics
- LAB - Network Management
- LAB - Storage Management

12:00 - 13:00 Lunch

13:00 - 14:45

- VMware vSphere Overview Presentation
- VMware to OpenShift Presentation

14:45 - 15:00 BREAK

15:00 - 15:45

- LAB - Migration from VMware to OpenShift

15:45 - 17:00

- Migration Factory
- Deep Dive on the Migration Factory offering



Agenda Day 2

09:00 - 10:15

- Migration discussion based on a real-world scenario
- Discussion on migration risks
- Estimating a project

10:15 - 10:30 Break

10:30 - 12:00

- Showcase the VMA Analysis (Hands-On)

12:00 - 13:00 Lunch

13:00 - 14:45

- Risk Analysis and Project Planning

14:45 - 15:00 BREAK

15:00 - 15:45

- Presenting a Customer Showcase (Scenario)

16:00 - 17:00

- GroupWork "Creating a CxO Proposal Presentation" for a Migration Project based on a given real-world Scenario.



Agenda Day 2

09:00 - 10:30

- Cont. Group Work from Day 2

10:30 - 11:30

- Presenting the GroupWork to the audience and discussion

11:30 - 11:45 BREAK

11:45 - 12:30

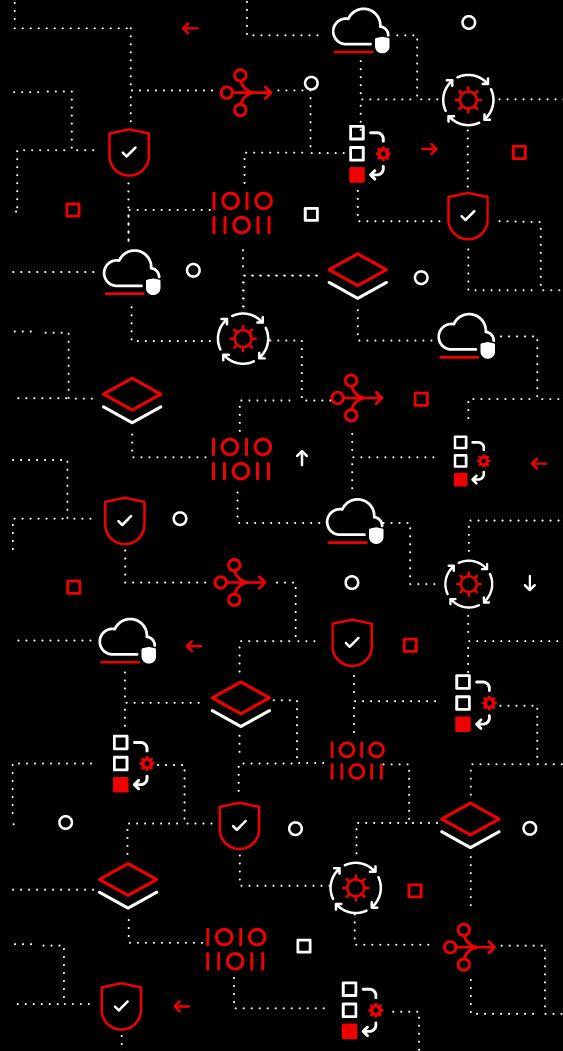
- Choose the right Subscription
- Advanced Cluster Management-V

12:30 - 13:30 LUNCH

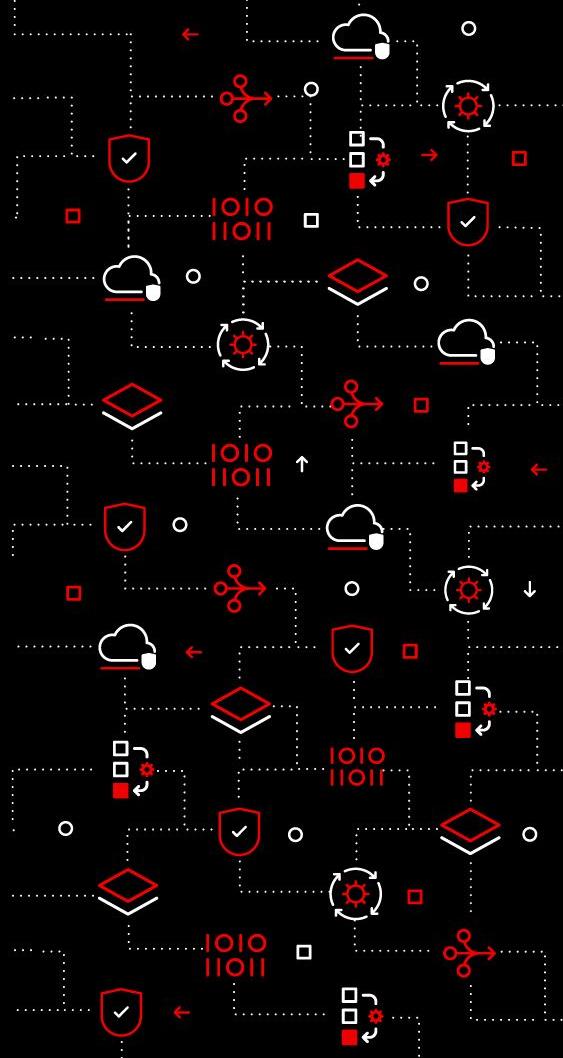
13:30 - 15:00

- running the OpenShift Virt Roadshow (WorkShop as a Service - WaaS)
- running the RoadShow Light (Arcade)
- Finding additional Infos Resources

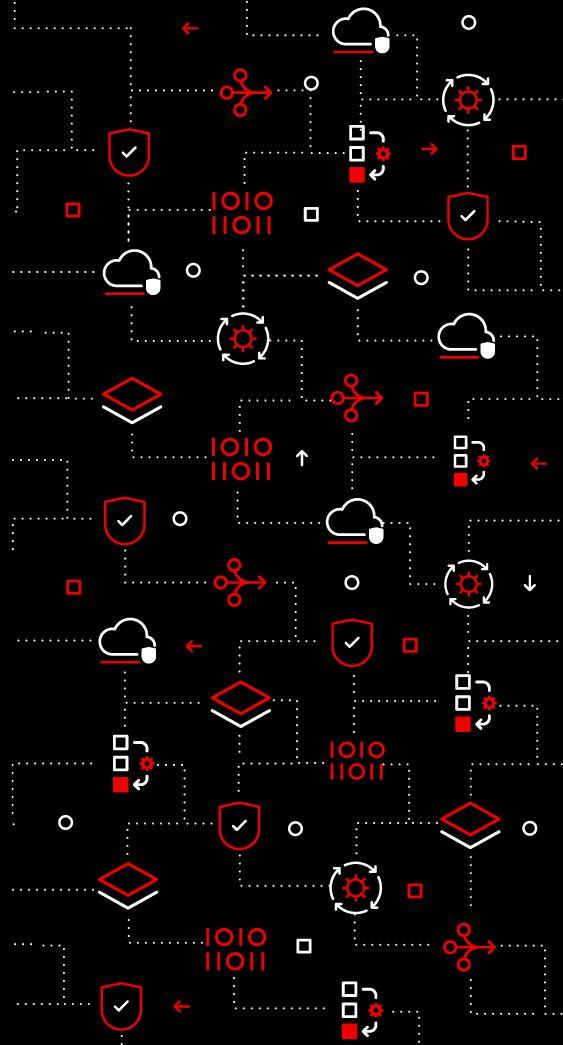
15:00 15:30 WrapUp and Ending the Workshop



now
SHOWTIME !



BREAK
till 11:45



Choose the right Subscription

Hybrid cloud application platform



Red Hat
OpenShift

Advanced Management & Security

Multicluster Management | Cluster Security | Global Registry | Cluster Data Management | Compliance & Policy Automation

Integrated DevOps Services

Service Mesh | Serverless | Builds | Pipelines | GitOps | Tracing | Log Management | Cost Management

Containers

Image Registry | Container Runtime | Pod Autoscaling | Resource Quotas & Limits | Namespace Isolation | Container Networking

VMs

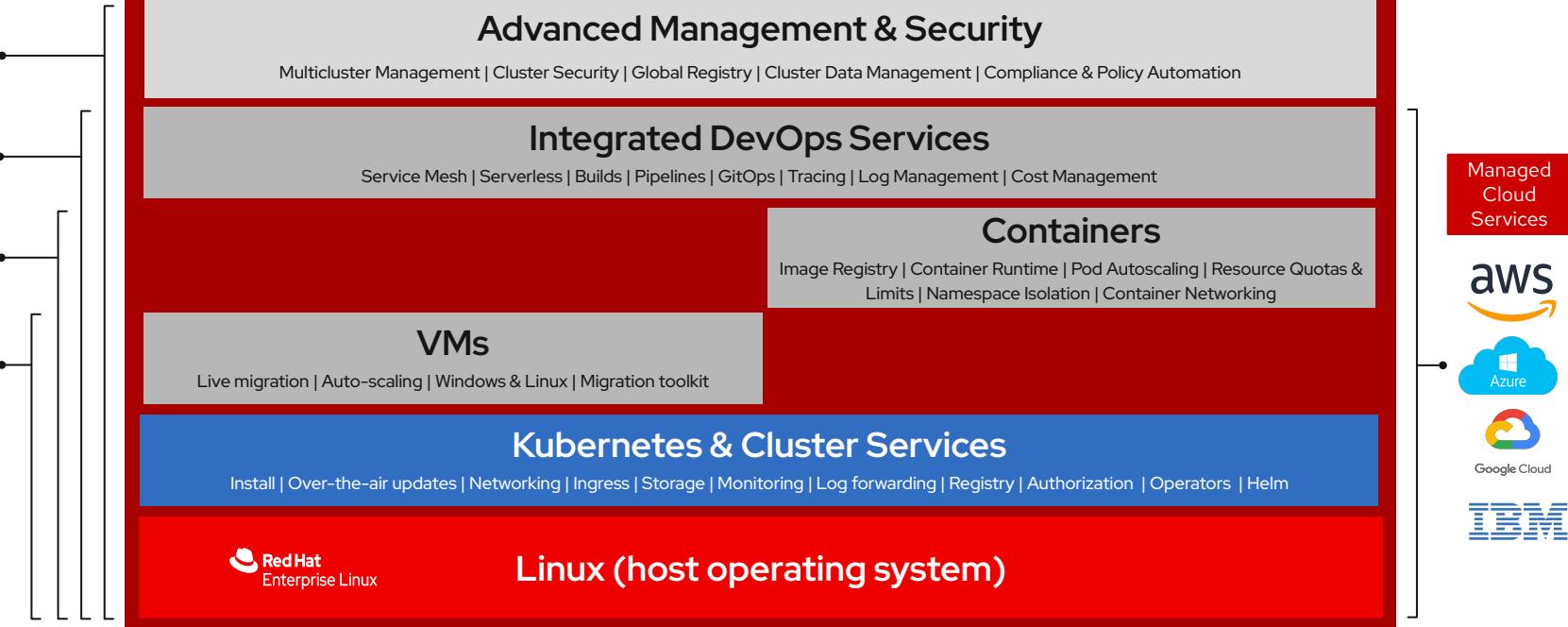
Live migration | Auto-scaling | Windows & Linux | Migration toolkit

Kubernetes & Cluster Services

Install | Over-the-air updates | Networking | Ingress | Storage | Monitoring | Log forwarding | Registry | Authorization | Operators | Helm



Linux (host operating system)



Physical



Virtual



Private cloud



Public cloud



Edge



Self-managed OpenShift editions

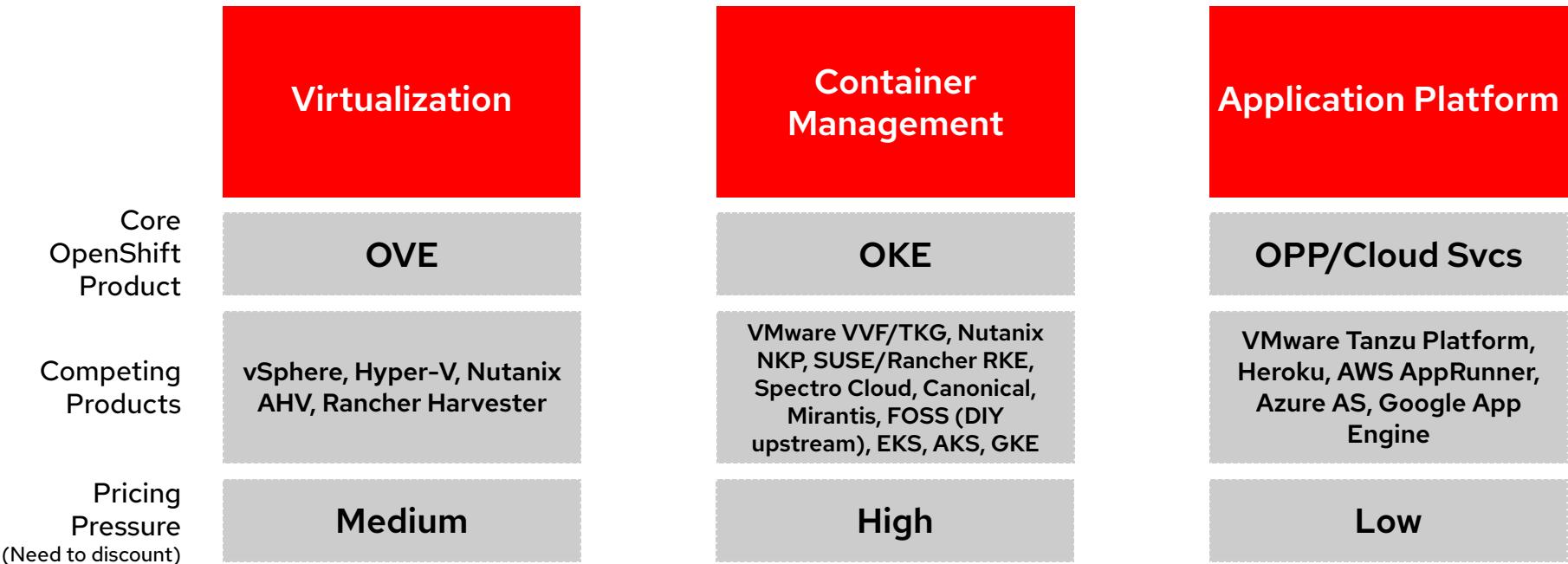
	 Red Hat OpenShift Virtualization Engine	 Red Hat OpenShift Kubernetes Engine	 Red Hat OpenShift Container Platform	 Red Hat OpenShift Platform Plus
Virtual machine workloads Migrate, manage, and deploy virtual machines	✓	✓	✓	✓
Enterprise Kubernetes for container applications Build, deploy, and run containerized applications		✓	✓	✓
Comprehensive application platform Full set of operations and developer services and tools			✓	✓
Management and security at scale Complete platform for accelerating app development and app modernization				✓

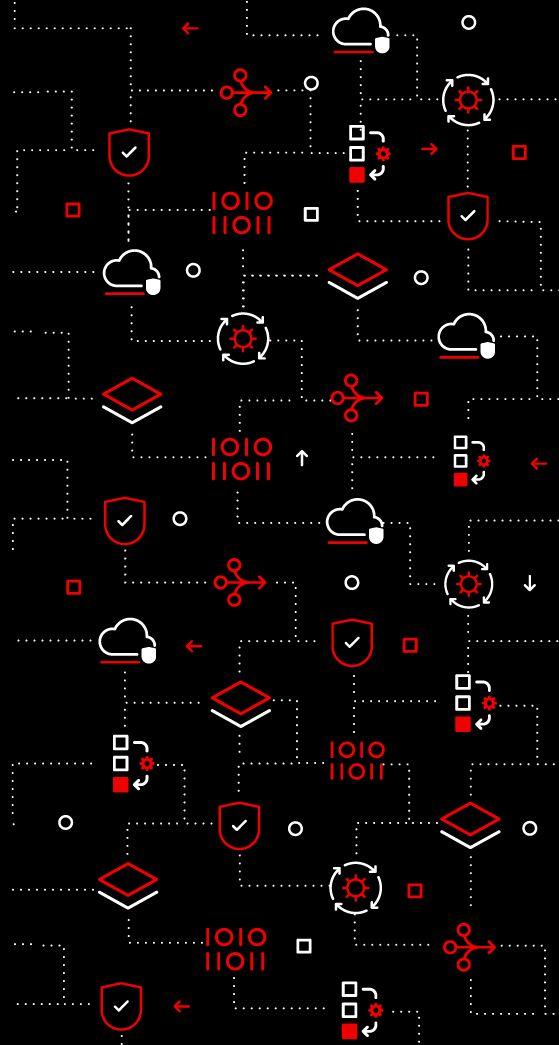
Find a feature breakdown across all OpenShift editions in our [subscription guide](#).

	 Red Hat OpenShift Virtualization Engine	 Red Hat OpenShift Kubernetes Engine	 Red Hat OpenShift Container Platform	 Red Hat OpenShift Platform Plus
Enterprise Secured Kubernetes	✓	✓	✓	✓
Hosted control planes	✓	✓	✓	✓
Operator Lifecycle Manager	✓	✓	✓	✓
Compliance & File Integrity Operators	✓	✓	✓	✓
Virtual machine-based workload hosting	✓	✓	✓	✓
Container-based infra workload hosting	✓	✓	✓	✓
User Workload Monitoring	✓*	✓*	✓	✓
Platform Logging	✓*	✓*	✓	✓
OpenShift GitOps	✓*	✓*	✓	✓
Metering and Cost Management SaaS Service	✓	✓	✓	✓
Container-based user application hosting		✓	✓	✓
RHEL guest and hosted virtual OpenShift subscriptions included		✓	✓	✓
Runtimes, Build Tools, and IDE			✓	✓
CI/CD Pipelines			✓	✓
Serverless			✓	✓
Service Mesh			✓	✓
Tracing			✓	✓
Multi-cluster complete management with Red Hat Advanced Cluster Management				✓
Kubernetes-native security with Red Hat Advanced Cluster Security				✓
Scalable, central registry with Red Hat Quay				✓
Persistent software-defined storage & essential data services with OpenShift Data Foundation Essentials				✓

*VMs only. [Learn more.](#)

Know How to Position OpenShift





Advanced Cluster Management for Virtualization (ACM-V)

Red Hat Advanced Cluster Management

A guide to the subscriptions



- ▶ Red Hat Advanced Cluster Management for **Virtualization** manages Red Hat OpenShift Virtualization Engine
- ▶ Red Hat Advanced Cluster Management for **Kubernetes** manages Red Hat OpenShift platforms

Advanced Cluster Management for Virtualization

Reduce fragmented visibility and manual context switching across VM estates



Business continuity from Day 0 to Day 2

Increase business resiliency to enhance SRE experience, minimize operational risk, enable backup and disaster recovery



Manage applications and virtual machines with ApplicationSets

Deploy VM applications from code source to ease deployment and streamline management at scale



Dynamic search & observability

See all virtual machines in your fleet. Understand health and capacity holistically using ready-to-use dashboards



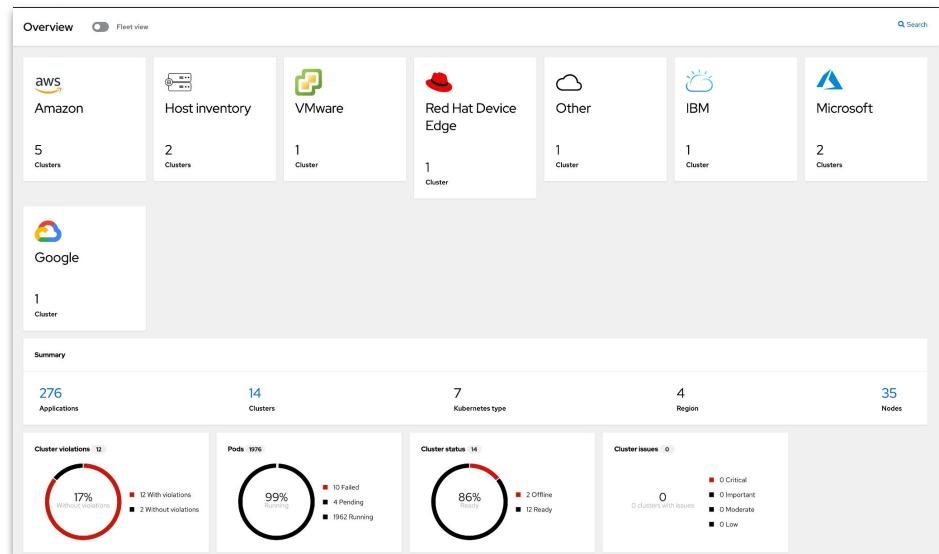
Manage VMs directly from ACM

Stop, start, restart, pause and unpause VMs directly from ACM

Business continuity from Day 0 to Day 2

Increase business resiliency

- ▶ Multicluster observability for VM health & optimization for an **enhanced SRE experience**
- ▶ Unified multicloud lifecycle management across the full-stack to **reduce VM complexity**
- ▶ Policy-driven governance, risk & compliance that **minimizes operational risks**
- ▶ Rapid service backup & disaster recovery to ensure **consistent user experiences**



Dynamic search & observability

A hybrid cloud view for all virtual machines & containers

Search

Saved searches ▾ Open new search tab ↗

kind:VirtualMachine X

Name ↑	Namespace	Cluster	Status
centos-stream8-wise-gibbon	default	aro-central	Stopped
centos-stream9-scarlet-crabfish-19	default	aro-central	Running
centos-stream9-time-test	default	aro-central	Running
database	default	aro-central	Running

- ▶ Quickly see all VMs in your fleet
- ▶ Gain deeper insights & visibility into your OpenShift Virtualization inventory with ready-to-use dashboards

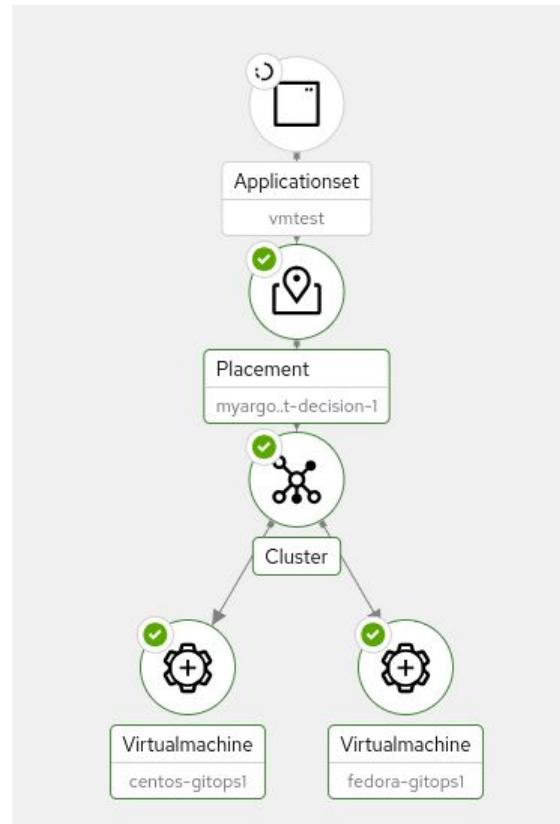


Manage OpenShift Virtualization with ApplicationSets

Ease deployment and streamline management at scale

Scenarios:

- ▶ Manage applications from Git-Repositories
- ▶ Supports multiple deployment patterns
 - Ex: Push/Pull Model
- ▶ Mass deployments to different namespaces
- ▶ Use placement for unplanned cluster failures
- ▶ See all Virtual Machines across multiple hubs at a Global Hub using Global Hub Search
- ▶ Prepare for Metro-DR and Regional-DR scenarios using Red Hat Open Data Foundation



Manage virtual machines from Advanced Cluster Management

Control without the context switching

Manage VM's directly from ACM 2.12:

- ▶ Start ▶ Unpause
- ▶ Stop ▶ Edit
- ▶ Restart ▶ View
- ▶ Pause ▶ Delete

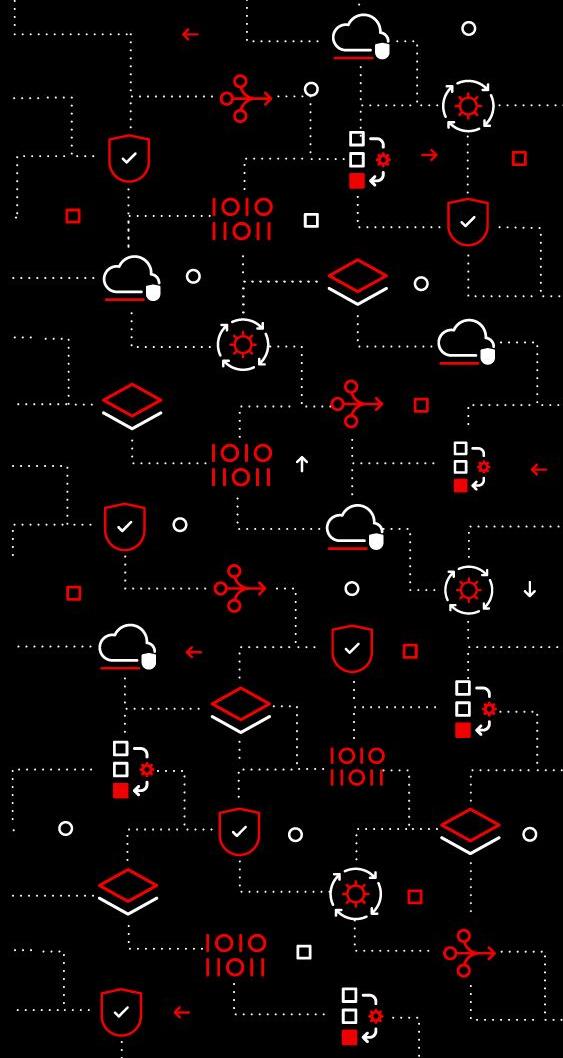
The screenshot shows the ACM 2.12 interface for managing virtual machines. At the top, there are two entries under the 'Labels' section:

- go app=centos7-gray-owl-35 vm.kubevirt.io/template=centos7-server-small
- go app=rhel9-amaranth-pelican-44 kubevirt.io/dynamic-creden... vm.kubevirt.io/template=rhel9-server-small 3 more

Below each entry, there is a set of management actions:

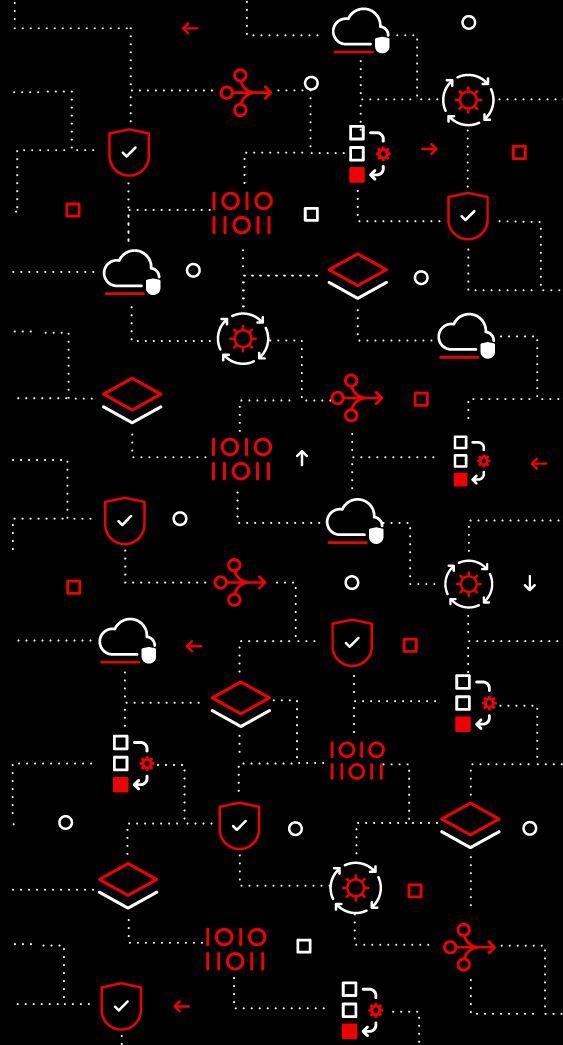
- Start VirtualMachine
- Stop VirtualMachine
- Restart VirtualMachine
- Pause VirtualMachine
- Unpause VirtualMachine
- Edit VirtualMachine
- View related resources
- Delete VirtualMachine

A blue box highlights the 'Delete VirtualMachine' option for the second entry.



Lunch Break

Till 13:30



Ecosystem enhancing Red Hat OpenShift Virtualization

A growing infrastructure ecosystem

Overview Workloads Infrastructure Services Next steps

Software Infrastructure

Storage Networking Backup & disaster recovery

Run your business-critical applications with increased scalability and resilience. ISV storage partners provide container-native solutions to migrate and scale critical data in OpenShift Virtualization, minimizing downtime while supporting business growth.

1 of 2



Dell Container Storage Modules
by DELL

Easily install and manage Dell's CSI Drivers and CSM

Containerized application



NetApp Trident
by NetApp

Data connectivity to persistent data stores for Kubernetes applications

Solution



IBM Fusion
by IBM Japan, Ltd.

The easiest way to deploy OpenShift applications and WatsonX.

Containerized application



INFINIDAT InfiniBox® Container Storage Interface (CSI) Driver
by Infinidat Ltd

CNCF-compliant Kubernetes integration for InfiniBox storage systems, offering...

Containerized application



HPE

HP Co. →

Open Pla...

...

[Browse all storage products →](#)

red.ht/workswithvirt



Red Hat
Learning



Storage automation for virtual machines and containers

- **Flexibility and Mobility**
 - VM Live Migration, VM High Availability
 - Cold migration between clusters
 - Storage policy-like experience via StorageClass
- **Day 2 Benefits**
 - Automated capacity management via Autopilot (Filesystem extension handled externally)
- **DR and Data Protection**
 - Async DR with only two OpenShift clusters required
 - Sync DR with less complexity and more flexible failover options
 - VM auto-detection and simple backup and restore





Kubernetes Data Protection and Mobility

K10 5.5 launched in October 2022 with VM capabilities

- Discover VMs: snapshot VM configuration and VM storage
- Freeze a VM before snapshot (optional annotation) w/ timeouts and unfreeze
- Restore VM snapshots with resource transforms and automatic orchestration

K10 enterprise features apply to VM workloads for automated data protection

- Apply K10 policies to virtual machines
- Export and import virtual machines for disaster recovery and virtual machine mobility between clusters





Disaster and recovery

“Significantly accelerate time to market, while ensuring reliability and quality of the overall solution.”

Rolled out a greenfield large scale application at the core where some components had to be in virtual machines. Architect, develop, test, and scale production-like deployments many months before a containerized version of applications being available.

- 100s of sites consolidated to run on minimum amount of hardware
- Accelerate solution by several years using non-containerized workloads



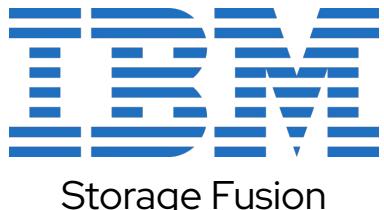


Storage Automation for virtual machines and containers

Discover enterprise-grade data protection for the Red Hat ecosystem- now with Red Hat OpenShift Virtualization support

- Automated and scheduled backups
- Policy-Driven backup and recovery
- Incremental backups and deduplication
- Backup catalog and metadata management
- Granular recovery options
- Recovery verification
- Encryption and data integrity
- Role-based access control
- Wide range of backup destination options including file system/object storage, tape pools and legacy backup systems (IBM/Dell/Micro Focus and others)





Pair IBM data services with Red Hat OpenShift Virtualization

Manage virtual machines with operators and CRDs

- Windows and Linux virtual machines
- Common GitOps management tools
- Common fusion container-native storage layer

Define application-aware backups with “recipes”

- A fusion recipe defines workflow to backup and restore application state
- Enforce consistency to ensure recoverability (e.g., database dump and restore)
- Orchestrate fusion backup policies from a central hub

Flexible deployment options

- Deploy fusion data services in any OpenShift cluster
- IBM Storage Fusion HCI System – an integrated system purpose built for Red Hat OpenShift applications
- Single point of contact for support





Orchestrating NVIDIA GPU accelerated virtual machines with Red Hat OpenShift

- GPU-accelerated applications running in virtual machines can be orchestrated by Red Hat OpenShift, just like ordinary enterprise applications, enabling unified management.
- In addition to AI, enabling Red Hat OpenShift graphics GPU use cases.
- The NVIDIA vGPU manager allows multiple virtual machines to share access to a single physical GPU, enabling simultaneous utilization with time-sliced vGPUs (no MIG support for now).
- The NVIDIA GPU Operator automates deployment, configuration, and lifecycle management of GPU-accelerated workloads.





Industry leading storage and data management functionality for modern workload deployments

- **Support** both virtualized and containerized apps in a single infrastructure
- **Virtual machines live migration**, CSI topology awareness and storage offload
- **Fast and efficient**, best-in-class snapshots and clones
- **NetApp Astra provides functionality** to protect, move, and store apps

Data protection for virtual machines is coming in Q4 2023



New exciting partnership with Dell



The screenshot shows the Red Hat OpenShift web interface. On the left, a sidebar menu includes options like Home, Dell APEX Cloud Platform, Operators, Workloads, Networking, Storage, Builds, Observe, Compute, User Management, and Administration. The Dell APEX Cloud Platform option is selected. The main content area displays the Dell APEX Cloud Platform interface, which includes a physical server view (Front View and Back View), BOSS information (Overview and Alerts), and Active Boot Device details. The right side of the screen shows a detailed server status summary with various metrics and alerts.

You are logged in as a temporary administrative user. Update the cluster OAuth configuration to allow others to log in.

Dell APEX Cloud Platform

Overview Inventory Updates Security Settings Support

Actions Front View Back View

Physical View

Server health Warning

System LED Healthy

Power state On

Service tag 35RLCX3

Role node Control plane, Master, Worker

Manufacturer Dell Inc.

Server slot 1

Server model APEX MC-760

Management IP address 172.18.30.52

IDRAC IP address 192.168.101.19

Location

Rack name U23

Activate Windows

Rack position 2 Go to settings to activate Windows.

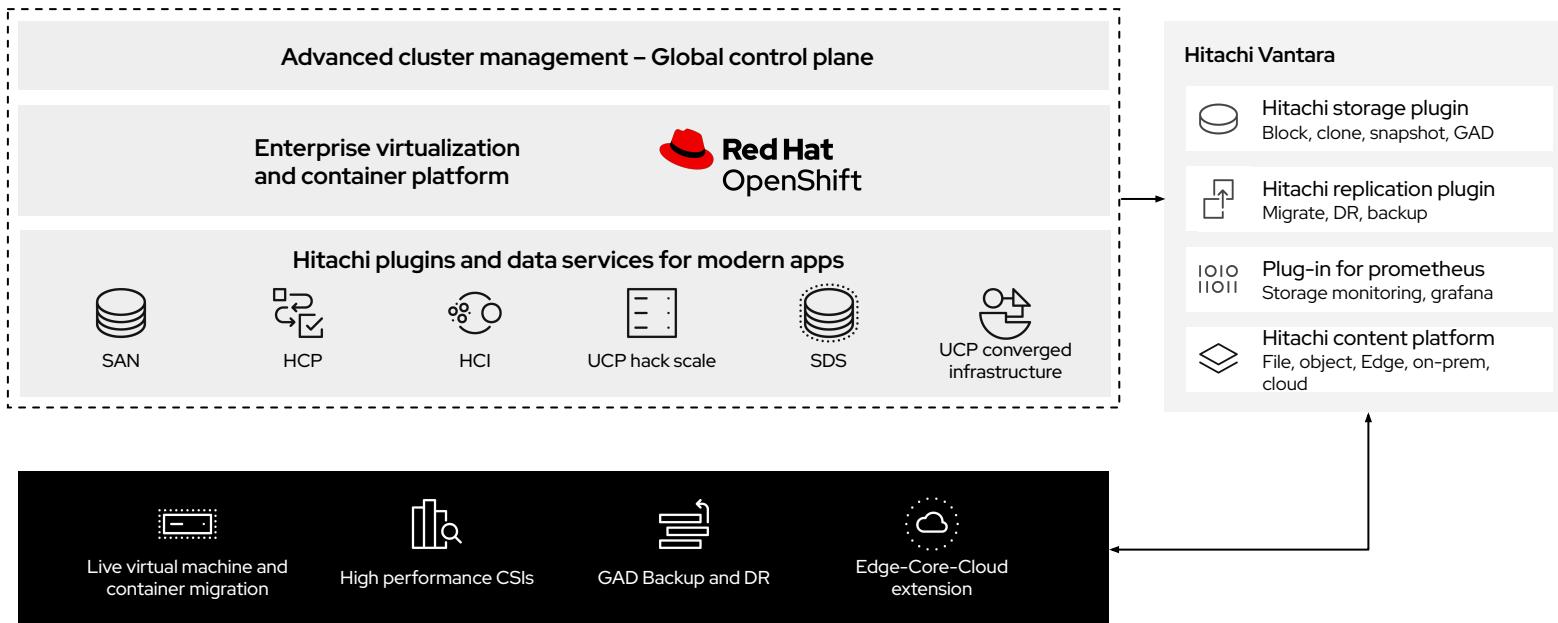
Firmware versions

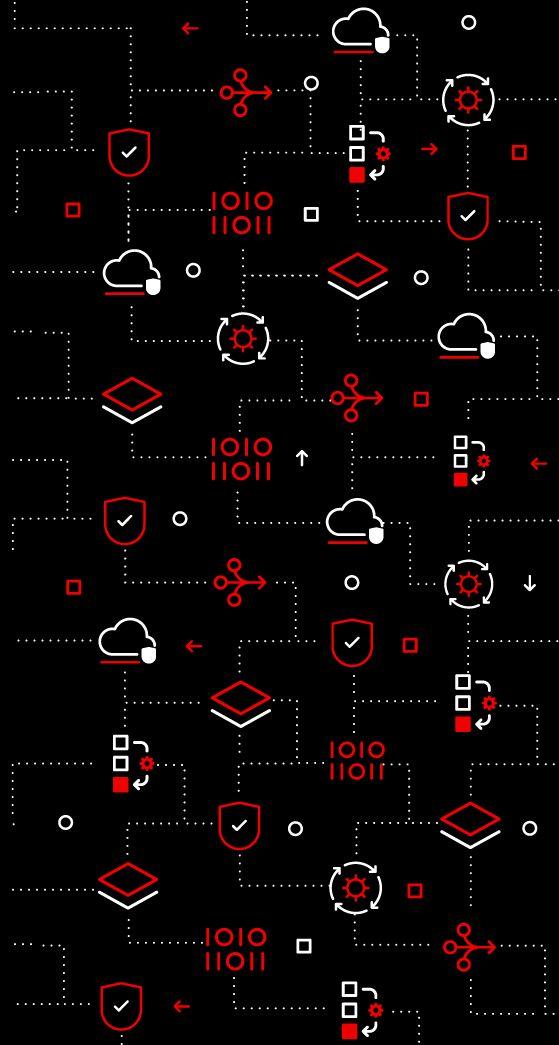
Overview	Boot Devices	Alerts
Server health Warning		
System LED Healthy		
Power state On		
Service tag 35RLCX3		
Role node Control plane, Master, Worker		
Manufacturer Dell Inc.		
Server slot 1		
Server model APEX MC-760		
Management IP address 172.18.30.52		
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Rack name U23		
Activate Windows		
Rack position 2 Go to settings to activate Windows.		
Firmware versions		



Red Hat OpenShift Virtualization

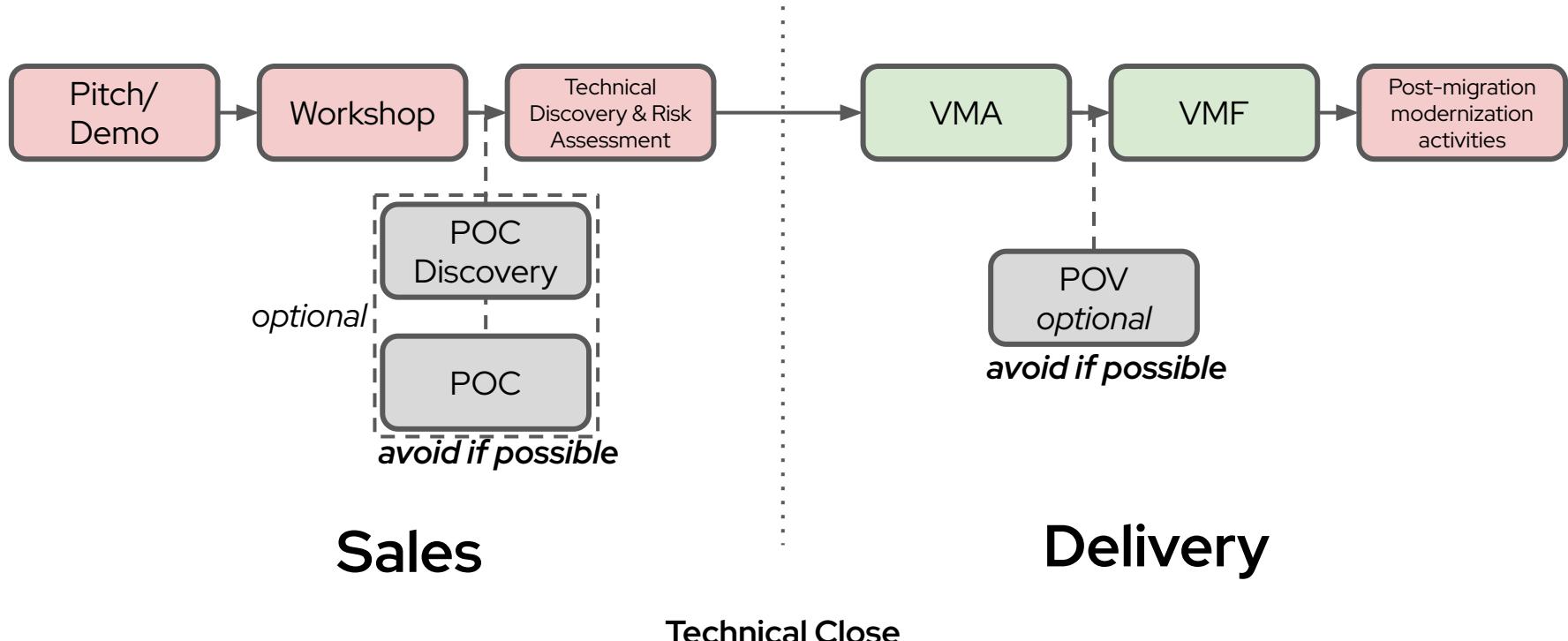
Hitachi Plugins and data services for modern apps, and containers





- Running the OpenShift Virt Roadshow (WorkShop as a Service - WaaS)
- Running the RoadShow Light (Arcade)
- Finding additional Infos Resources

Optimal Virt sales and delivery path



Options for proving our solution

Demo	Workshop	Proof of Concept (POC)	Proof of Value (POV)
<ul style="list-style-type: none">• Demonstrates features• Takes place on Red Hat hardware, including <u>Red Hat Interactive Experiences (RHIE)</u>• Pre-canned workflow determined by what the customer wants to see• Duration is less than an hour• Executed by SSAs pre-VMA	<ul style="list-style-type: none">• Gets customer hands on with features• Takes place on Red Hat hardware• Pre-canned workflow determined by workshop modules• Duration is hours in length• Executed by SSAs pre-VMA	<ul style="list-style-type: none">• Proves the feasibility of our solution• Takes place on customer hardware in lab environment• Scope set by well-defined entrance, success, and evaluation criteria• Duration is days in length• Executed by SSAs pre-VMA	<ul style="list-style-type: none">• Proves the value of our solution through a production-ready migration• Takes place on customer hardware• Scope set by number of production-ready VMs to be migrated• Duration is weeks in length• Executed by RH Consulting or partners post-VMA

LOW

Time & Cost

HIGH

Red Hat
Learning

OpenShift Virtualization Roadshow

aka *THE workshop*

- ▶ The premier hands-on experience for VMW admins and Infrastructure architects to learn about OpenShift Virtualization.
- ▶ Start the day with an overview of OpenShift Virtualization and then dive into a 4-hour lab with modules that cover: environment review, VM creation and use, customization, management, live migration, networking, storage, migration tool kit, external load balancer, and backup and restore.
- ▶ End the day with a closing presentation that includes OpenShift capabilities and our partner ecosystem.



OpenShift Virtualization Roadshow

Goals

- ▶ Showcases the overall ease of use and capabilities of OpenShift Virtualization
- ▶ Offers a technical workshop for VM admins and Infrastructure architects who are interested in OpenShift Virtualization

Who are we targeting?

- ▶ vSphere/Virtualization Admins, Infrastructure architects who are looking for an alternative to their current virt. Platform.
- ▶ Other considerations: VMware customers that may dislike Broadcom or are in competitive industries to Broadcom

Topics/Content

- ▶ How can customers use OpenShift Virtualization, how do they migrate their current VMs and what does everyday management look like
- ▶ Who does our partner ecosystem consist of?
- ▶ What does onboarding look like and what resources are there?
- ▶ Primary CTAs/next steps: Depends if these are sales led or multi-customer marketing events.



OpenShift Virtualization Roadshow Topics

Topic	Description
Virtual Machine Management	Basics of creating and managing VMs in OpenShift Virtualization. Basic customizations and live migration
Migrating Existing Virtual Machines	Migration Toolkit for Virtualization (MTV) to import virtual machines from VMware vSphere to OpenShift
Storage Management	Persistent Volume Claims (PVCs), which are used to request storage from the provider and store a VM disk
Backup and Recovery for Virtual Machines	Data protection for backup and recovery for VMs. OADP Operator, backup and restore
Template and Instance Type Management	Review preconfigured templates for creating VMs, VM cloning and customization
Working with Virtual Machines and Applications	Common day 2 operations, exposing applications



Success from the Customer Perspective



Understanding that **THERE IS** a viable alternative to VMW



Become familiar with Red Hat OpenShift Virtualization



Understand that your journey to infrastructure modernization starts here



How Red Hat OpenShift provides an effective destination for VMs today, but also provides an application platform for the future

"I didn't realize how mature the OpenShift Virtualization product was."
- Customer

"I really liked the UI and how easy it was to use." - Customer

"It was invaluable for them to hear your perspective/roadmap on this technology, as well as getting hands-on with the product." - Account team

"These sorts of high-touch, product management/development engagements are essential to building trust and comfort with our products and between our companies." - Account team



Success from Red Hat Perspective



Show the capabilities of OpenShift Virt are a viable alternative to VMware



Create and help close sales opportunities,
getting them to the VMA!

"The workshop solidified our decision to remove VMware and replace with OpenShift Virt." - Attendee at Customer Event



Red Hat Partner Connect

Sales Training Product certification Marketing My company Support

Red Hat Demo Platform Beta

Catalog

Select an item to request a new service, demo, or lab.

All Items

Search

All Items

 Experience OpenShift Virtualization Roadshow provided by RHDP Introduction Welcome to the OpenShift Virtualization Roadshow! This Catalog Item hosts the OpenShift virtualization... 5 stars (85)	 Red Hat OpenShift Container Platform Cluster provided by RHDP This asset shows how to provision an OpenShift Container Platform cluster with basic customizations for running hands-o... 5 stars (81)	 Ansible Product Demos provided by RHDP This lab provides a sandbox for development, and experimentation the Ansible Product Demos project 5 stars (15)
 Ansible Labs - Ansible for Red Hat Enterprise Linux (90 mins) provided by RHDP This asset describes the lab for Red Hat Ansible Automation Platform and Red Hat Enterprise Linux (RHEL). This lab consists... 5 stars (8)	 Ansible Labs - Ansible for Windows Automation provided by RHDP Understand and use command-line activities to implement the automation controller. For users who are new to Red... 5 stars (14)	 Backup and Recovery of F Hat OpenShift Virtualizati VMs using Trilio (ROSA) provided by RHDP Instructions Important: Detailed instructions for this demo are ready available on the Showroom platform 5 stars (9)

Order your Lab
Partner.demo.redhat.com



Red Hat
Demo Platform

Catalog Services

Services > openshift-cnv.ocp-virt-roadshow-multi-user.prod

OpenShift Virt. Workshop Workshop UI

Details Provisioning Instances Users YAML

Name: openshift-cnv.ocp-virt-roadshow-multi-user.prod

Workshop URL: <https://catalog.demo.redhat.com/workshop/gz9wph>

Display Name: OpenShift Virt. Work

Status: 1 Instances Run

Description: Add description

Redirect Users:

Access Password: ***** Change

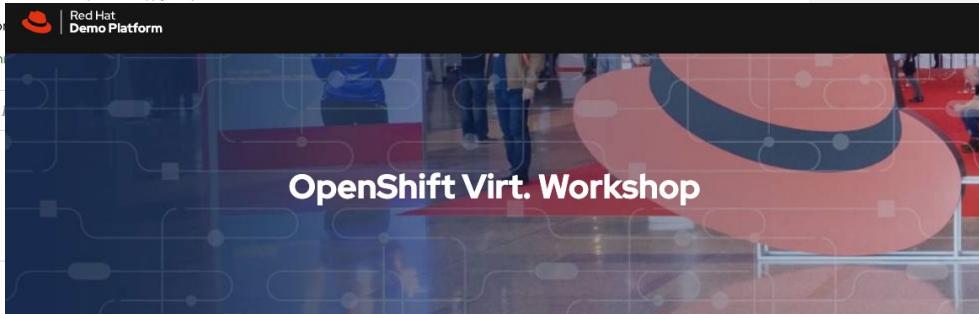
User Registration: open registration

Workshop Users Assigned: 0 / 5

Auto-Stop: No auto-stop Change

Auto-Destroy: 06/12/25, 01:47 PM

Salesforce ID: 71199118



your Workshop

g in with any e-Mail

our chosen

ord

Access to OpenShift Virt. Workshop

Email * Required

Workshop Password * Required

Access this workshop →

number here V00000



**Red Hat
Demo Platform**

Experience Red Hat OpenShift Virtualization



**Red Hat
Demo Platform**

Experience Red Hat OpenShift Virtualization

Experience OpenShift Virtualization

- ▶ [Introduction](#)
- ▶ [Virtual Machine Management](#)
- ▶ [Migrating Existing Virtual Machines](#)
- ▶ [Storage Management](#)
- ▶ [Backup and Recovery for Virtual Machines](#)
- ▶ [Template and InstanceType Management](#)
- ▶ [Working with Virtual Machines and Applications](#)
- ▶ [Network Management for Virtual Machines](#)
- ▶ [Conclusion](#)

[!\[\]\(37852462ad6b69a3f02caabab9f89b36_img.jpg\) Experience OpenShift Virtualization](#) / [Introduction](#)

If you would like to learn more about OpenShift Virtualization, please visit the [landing page](#), review the [documentation](#), enjoy one of our [interactive experiences](#), or view some of our demo videos on [YouTube](#).

Requirements for the Lab Environment

- Participant needs to have their own computer with a web browser and internet access.
- Chromium based browsers are recommended as some copy/paste functions don't work in Firefox for the time being.
- Remote access console uses the US keyboard layout by default, so it's good to know where special characters reside for other country's layouts, or to use the copy/paste function in a supported browser.

Credentials for the OpenShift Console

Your OpenShift cluster console is available [here](#).

Your login is available with:

- User: user3
- Password: KXxg4kl0Wi9C3PHu

vCenter Access

In the migration chapter of the lab, you will be asked to login and examine a [VMware vSphere](#) environment.

For access, please use the following credentials:

- vcenter_user: ocpvirt-6j5wx-user3@infra
- vcenter_password: rCmU24:gOeZEiO

Version Information

Contents

- ▶ [Introduction](#)
- ▶ [Who Will Benefit Most from attending a Roadshow?](#)
- ▶ [What Content Is Covered In The Roadshow?](#)
- ▶ [What is OpenShift Virtualization?](#)
- ▶ [Why switch from a traditional VM platform?](#)
- ▶ [Which OpenShift Subscription is right for me?](#)
- ▶ [Next steps](#)
- ▶ [Requirements for the Lab Environment](#)
- ▶ [Credentials for the OpenShift Console](#)
- ▶ [vCenter Access](#)
- ▶ [Version Information](#)

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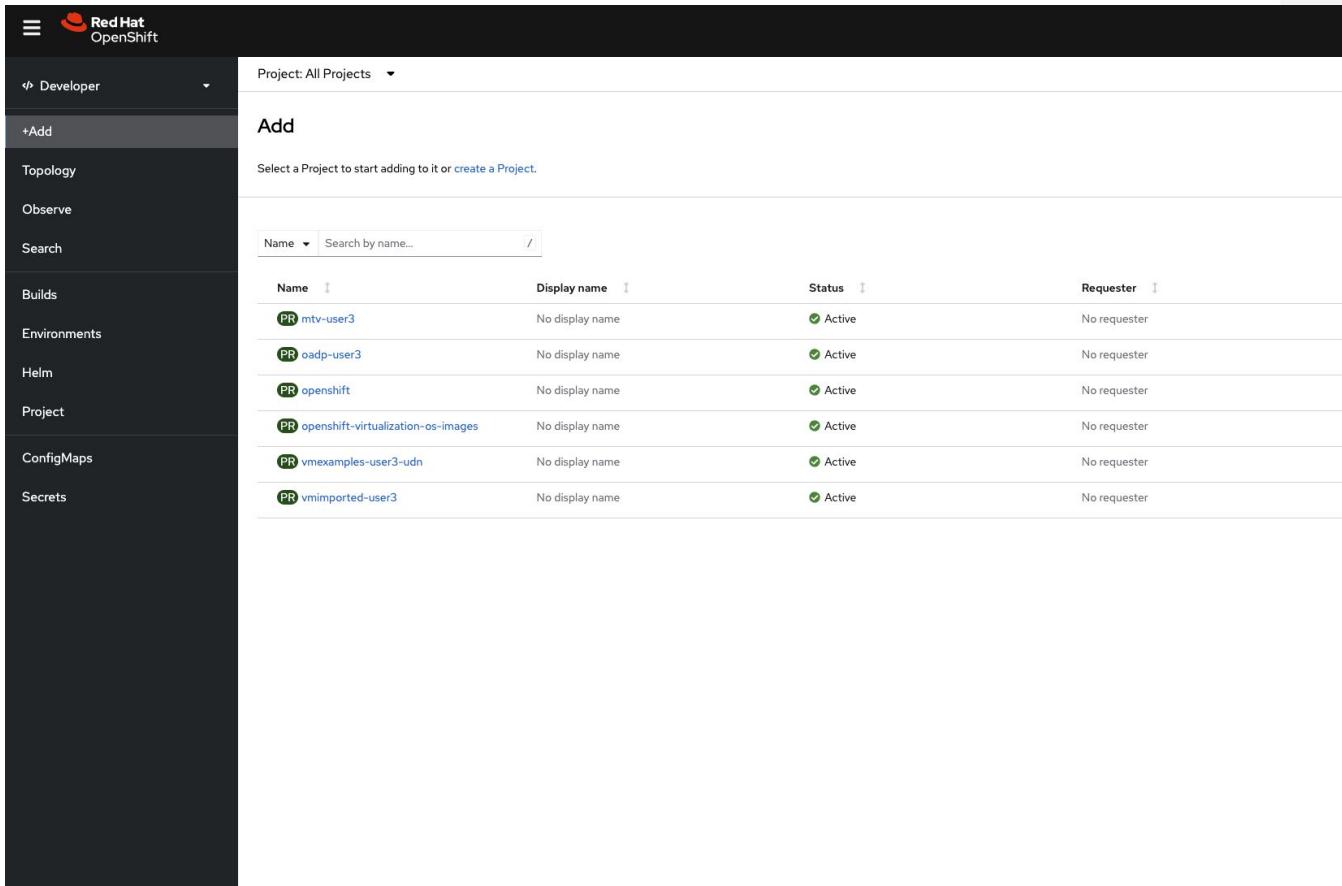
n

You are now in the Lab
Instruction app
"SHOWROOM"

Scroll down to:
Credential for OpenShift
Console

Remeber your Username,
copy the password and
click the Link to the
Console





The screenshot shows the Red Hat OpenShift web interface. The top navigation bar includes the Red Hat logo and the text "Red Hat OpenShift". A dropdown menu on the left shows "Developer" selected. The main content area has a header "Add" and a sub-header "Select a Project to start adding to it or create a Project." Below this is a search bar with "Name" and "Search by name..." fields. A table lists seven projects:

Name	Display name	Status	Requester
PR mtv-user3	No display name	Active	No requester
PR oadp-user3	No display name	Active	No requester
PR openshift	No display name	Active	No requester
PR openshift-virtualization-os-images	No display name	Active	No requester
PR vmxexamples-user3-udn	No display name	Active	No requester
PR vmimported-user3	No display name	Active	No requester

You are now a user in the
OpenShift Cluster



The image shows two side-by-side browser windows. The left window is the Red Hat OpenShift web interface, displaying a list of projects under the 'Add' section. The right window is the 'ShowRoom' page for Red Hat OpenShift Virtualization.

Left Window (Red Hat OpenShift Web Interface):

- Header:** Red Hat OpenShift
- Navigation:** Developer, +Add, Topology, Observe, Search, Builds, Environments, Helm, Project, ConfigMaps, Secrets
- Section:** Add
- Text:** Select a Project to start adding to it or [create a Project](#).
- Table:**| Name | Display name | Status |
| --- | --- | --- |
| mtv-user3 | No display name | Active |
| aadp-user3 | No display name | Active |
| openshift | No display name | Active |
| openshift-virtualization-os-images | No display name | Active |
| vmaxamples-user3-uds | No display name | Active |
| vmimported-user3 | No display name | Active |

Tipp:

Place the ShowRoom and
the Console side by side



Red Hat Demo Platform

Virtual Machine Management

Introduction

The beginning section of this lab will introduce you to the basics of creating and managing VMs in OpenShift Virtualization. Starting with OpenShift 4.18 there is a new Virtualization persona and a tree view for virtual machines that make it easier to visualize and manage your virtualization-based assets. After exploring the UI changes, you will see how the web console guides you through the whole process of creating a virtual machine from a pre-defined template. We will then review the properties of that VM, do some basic customizations, and perform actions like live migration, that are often expected of virtual machine administrators.

Goals

- Create a new virtual machine
- Review and modify resources for virtual machines
- Understand how VM power states are managed using the OpenShift console
- Live migrate a VM between two hosts

As a reminder, here are your credentials for the OpenShift Console:

Your OpenShift cluster console is available [here](#).

Your login is available with:

- User: user3
- Password: KXxg4kIOWi9C3PHu

Switch to the Virtualization Persona

1. When you first log in, you will be placed in the **Developer** persona, with an introductory prompt. Click the **Skip tour** button to close the window.

And start with the Lab one:
Virtual Machine Management



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Migrate VMs from VMWare to
Red Hat OpenShift



Scale VM migration to Red Hat
OpenShift with Red Hat Ansible
Automation Platform



Manage and monitor VMs on
Red Hat OpenShift with Red Hat
Advanced Cluster Management
for Kubernetes



Live migration for VMs on
Red Hat OpenShift
Virtualization



Cloning VMs on Red Hat
OpenShift Virtualization



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Virtualization with partners



Self-service provisioning VMs
with Red Hat Developer Hub



Regional disaster recovery for
VMs using Red Hat Advanced
Cluster Management for
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OpenShift Data Foundation



Inventory Management of
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Uplift and Shift with ROSA



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Activities

Developer : Red Hat OpenShift Service on AWS

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Virtualization

Project: All Projects

Virtualization

Overview Migrations Settings

Download the virtctl command

Getting started resources

Quick Starts

Learn how to create, import, and run virtual machines on OpenShift with step-by-step instructions and tasks.

Create a virtual machine from a volume →

View all quick starts

Feature highlights

Read about the latest information and key virtualization features on the Virtualization highlights.

Save memory with OpenShift Virtualization using Free Page Reporting • 8 min read ↗

OpenShift Virtualization 4.18 Highlights • 5 min read ↗

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Related operators

Ease operational complexity with virtualization by using Operators.

Kubernetes NMState Operator ↗

OpenShift Data Foundation ↗

Migration Toolkit for Virtualization ↗

Migrate multiple virtual machine workloads to OpenShift Virtualization.

Learn more about Operators ↗

VirtualMachines 0

No data available

vCPU usage 0

No data available

Memory 0

No data available

Storage 0

No data available

Alerts (0)

Show all ↗

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A tailored learning path for your VM migration

Build the skills, processes and culture needed to optimize and modernize your IT infrastructure with Red Hat Training and Certification.

Essentials

 [Red Hat OpenShift Virtualization Technical Overview | DO016](#)

 [Containers, Kubernetes and Red Hat OpenShift Technical Overview | DO080](#)

 [Ansible Basics: Automation Technical Overview | DO080](#)

Prerequisites for Day 1

 [Red Hat OpenShift Administration I: Operating a Production Cluster | DO180](#)

 [Red Hat OpenShift Administration II: Configuring a Production Cluster | DO280](#)

 [Red Hat Certified OpenShift Administrator exam | EX280](#)

Day 1

 [Migrating Virtual Machines to Red Hat OpenShift Virtualization with Ansible Automation Platform | DO346](#)

 [Managing Virtual Machines with Red Hat OpenShift Virtualization | DO316](#)

 [Red Hat Certified Specialist in OpenShift Virtualization | EX316](#)

Day 2

 [Automate and Manage Red Hat OpenShift Virtualization with Ansible | DO336 \(coming Q2 2025\)](#)

 [Red Hat Certified Specialist in Automating OpenShift Virtual Machine Migration Exam | EX336 \(coming Q2 2025\)](#)

 [Red Hat Advanced Cluster Management for Kubernetes | DO432 \(coming Q3 2025\)](#)

 [Red Hat Certified Specialist in OpenShift Advanced Cluster Management Exam | EX432 \(coming Q3 2025\)](#)

 Certification

 Course

Thank you

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