Modernizing Virtualization for the Future

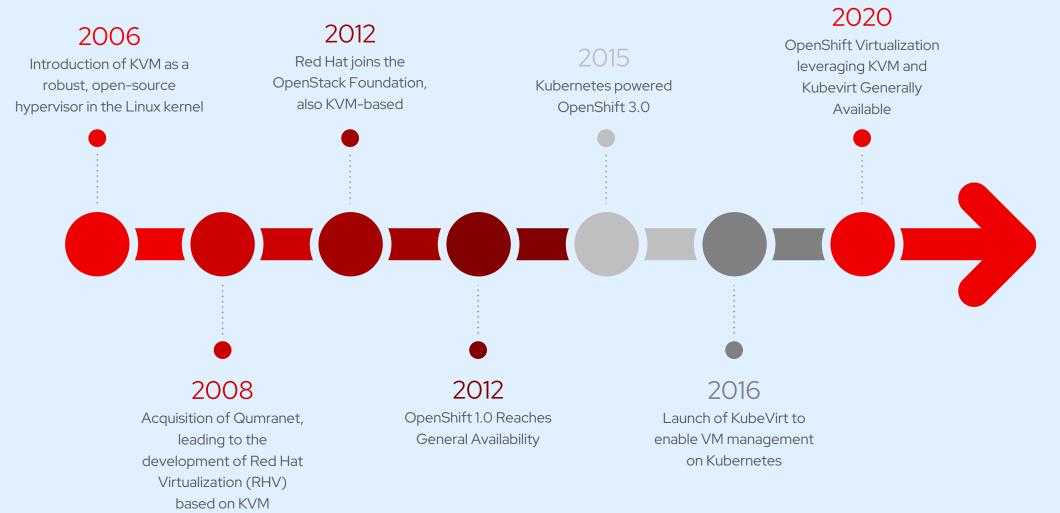


Jarosław Stakuń

Principal Solution Architect Red Hat



Red Hat has a long history with Virtualization







KubeVirt

KubeVirt is mature and key

200+ Contributing companies

60 Releases

Top 10 CNCF active projects

50% increase in Contributing companies in CY23





KubeVirt

KubeVirt is mature and key

NIC/CPU/RAM Hot Plug

Storage and VMs Live Migration

VMs Backup/HA/DR

Memory/CPU Overcommit

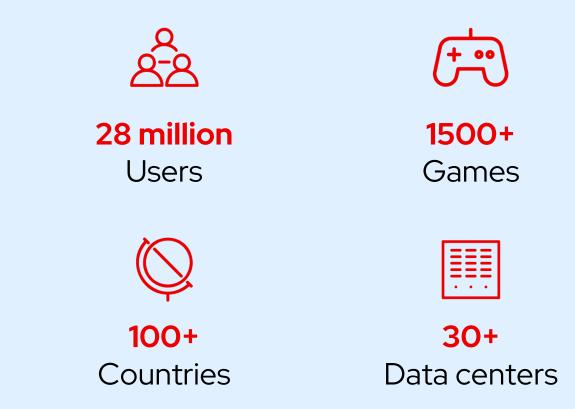
VLANs, Tenant Network Isolation



Proven performance and scale with KubeVirt









Red Hat OpenShift Virtualization

The modern option for general purpose virtualization

RHEL and Linux VMs		Windows VMs support			Migration tools included	
Unified management	Consistent operations		Performance Stability	Robust open source community		Diverse partner ecosystem
Unified platform for virtual machines and containers						

Open Hybrid Cloud platforms



We frequently hear from customers ...

"I want to migrate ASAP"

• Migrate off their current traditional virtualization platform completely

"I want to modernize"

 Want to run their VMs leveraging the benefits associated with a hybrid and modern cloud native approach



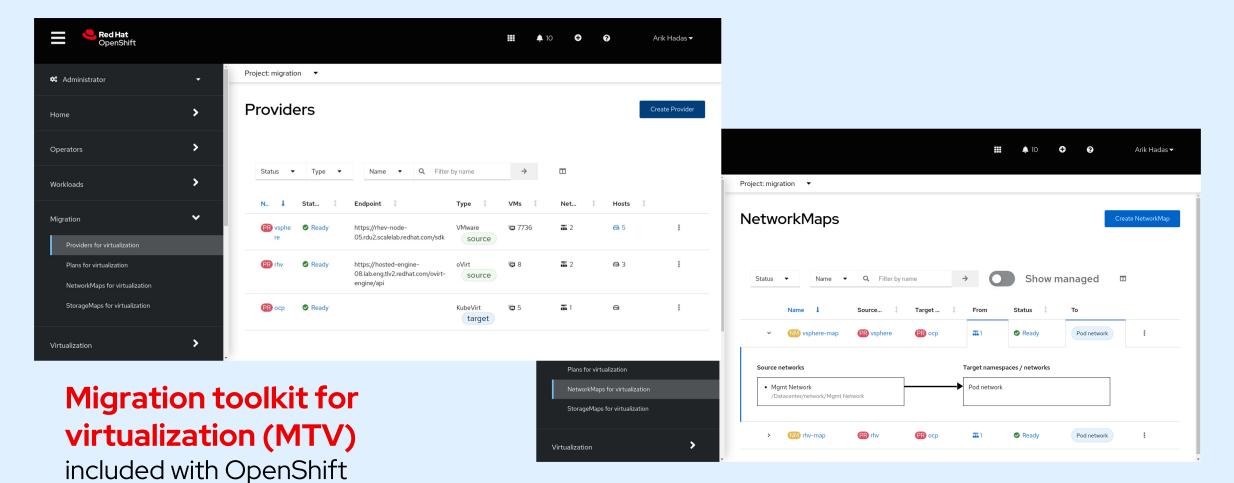


Migrate your traditional virtual machines



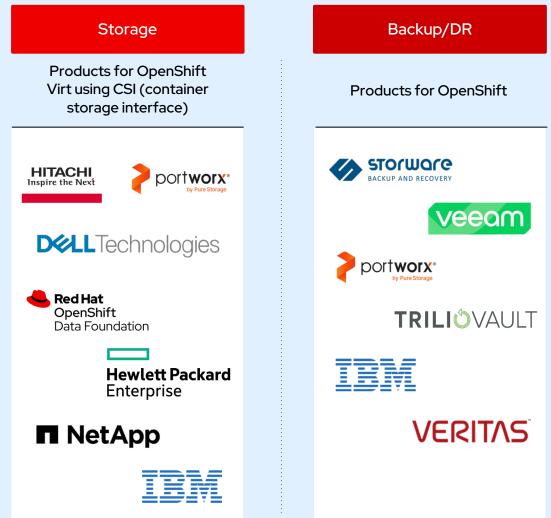


Migrating VM-based applications with minimal disruption





Use your existing ISV Partners*



Networking **Cloud Services Products for OpenShift Virt** Current public cloud using CNI (container providers offering networking interface) **OpenShift virtualization** aws ISOVALENT TICERA Compute $(\mathbf{5}$ **CISCO** Current on prem providers offering OpenShift virtualization EM **Hewlett Packard** Enterprise **DCL**Technologies 1111111 Lenovo CISCO



* This is not an exhaustive list of ISV partners, with new partners being added all the time.

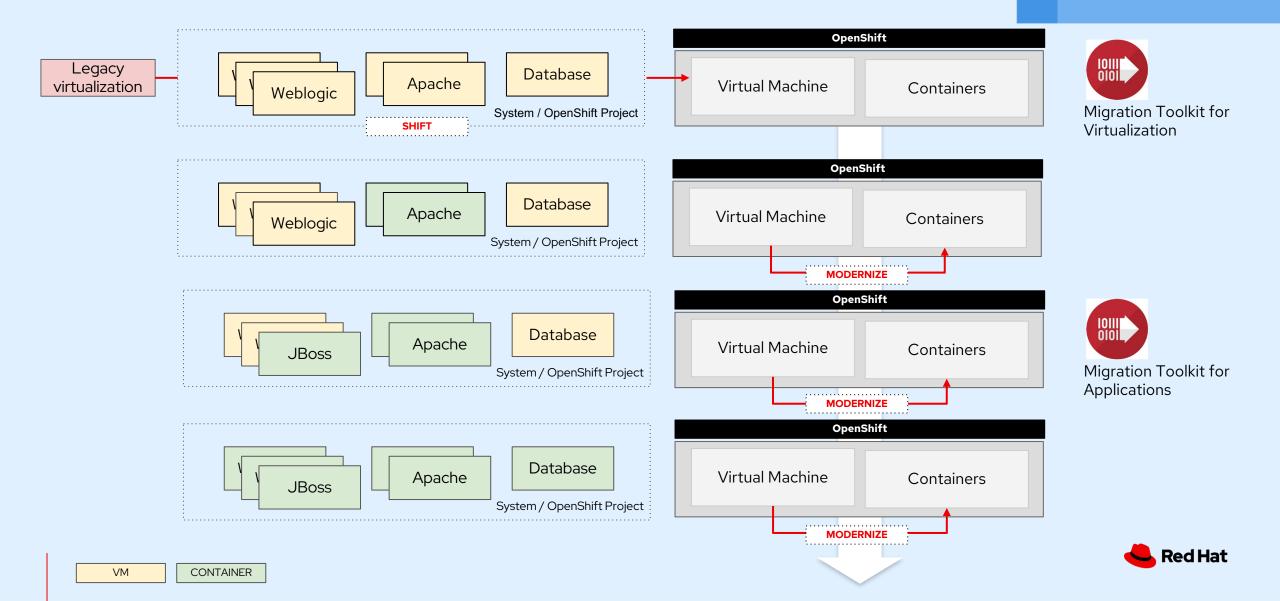


Modernize your infrastructure





Modernize at your own pace



Use OpenShift Virtualization to consolidate your OpenShift clusters

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Control Planes Worker Nodes (hosted in Pods on OCP) (hosted in VMs on OCP) W \mathbb{N} Increase utilization of VM VM VM infrastructure worker 1 ∇M VM VM worker worker VM VM VM worker worker Lт etcd etcd etcd **Reduce dependency on legacy** 1.1 Ц. р. api apr Virtual machines virtualization serve serve 11 serve 1 1 S **Physical hardware**

