Modernizing Virtualization for the Future

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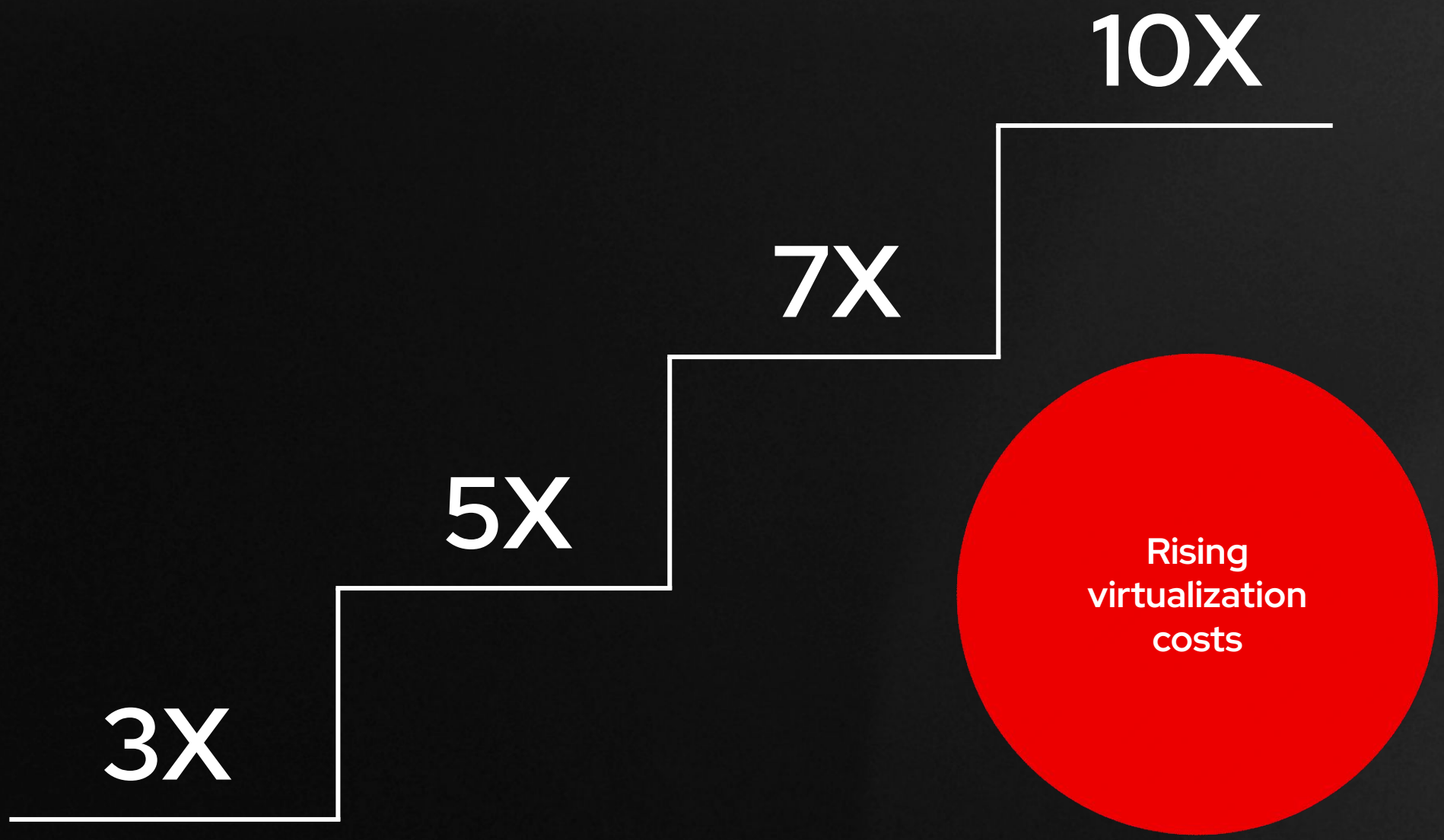
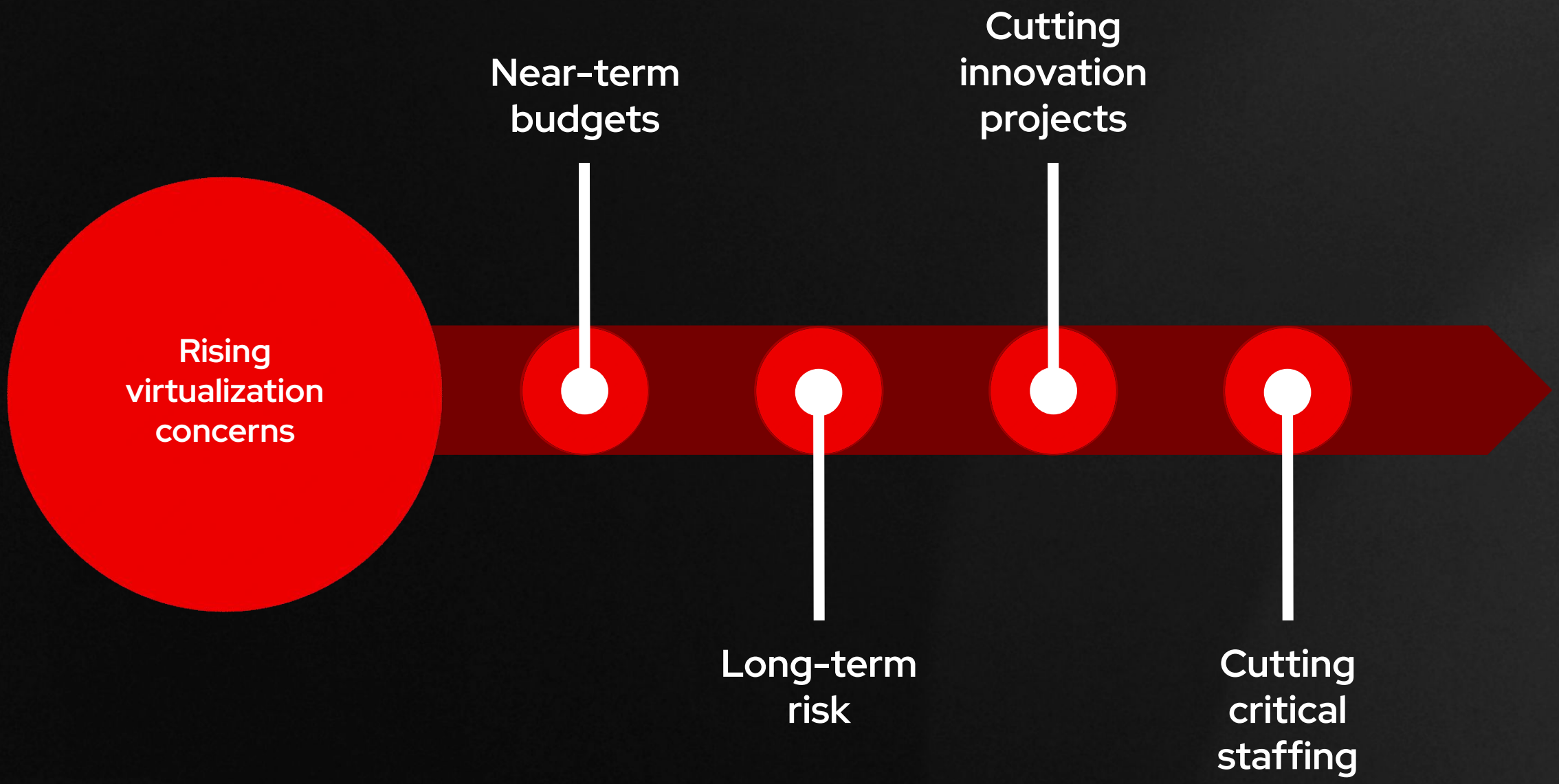
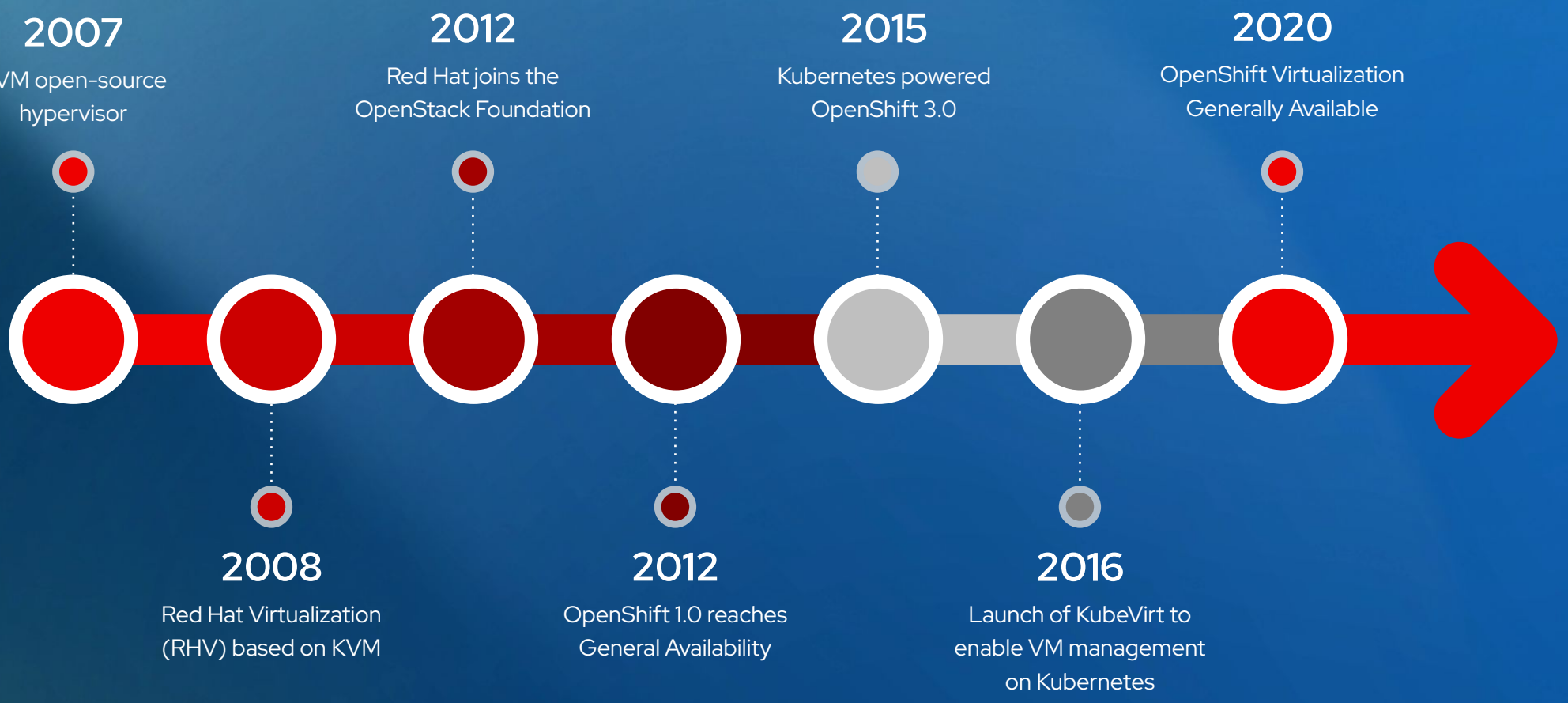
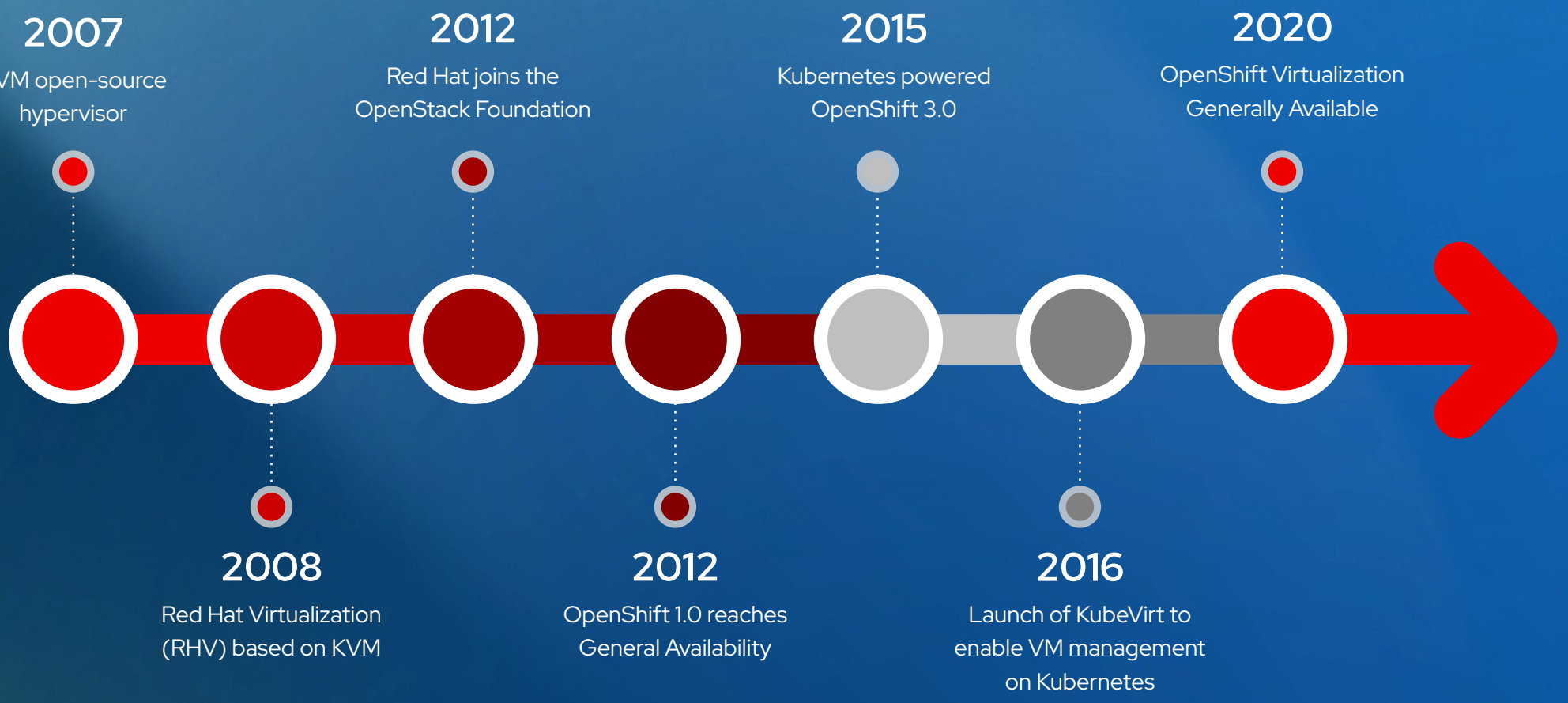
Red Hat

Red Hat


10X
7X
5X
3X
Rising virtualization costs


Rising virtualization concerns
Near-term budgets
Long-term risk
Cutting innovation projects
Cutting critical staffing


2007
KVM open-source hypervisor
2008
Red Hat Virtualization (RHV) based on KVM
2012
Red Hat joins the OpenStack Foundation
2012
OpenShift 1.0 reaches General Availability
2015
Kubernetes powered OpenShift 3.0
2016
Launch of KubeVirt to enable VM management on Kubernetes
2020
OpenShift Virtualization Generally Available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OpenShift Virtualization Generally Available

Red Hat OpenShift Virtualization

RHEL VMs included

Windows VMs support

Migration tools

Unified management

Consistent operations

Performance & stability

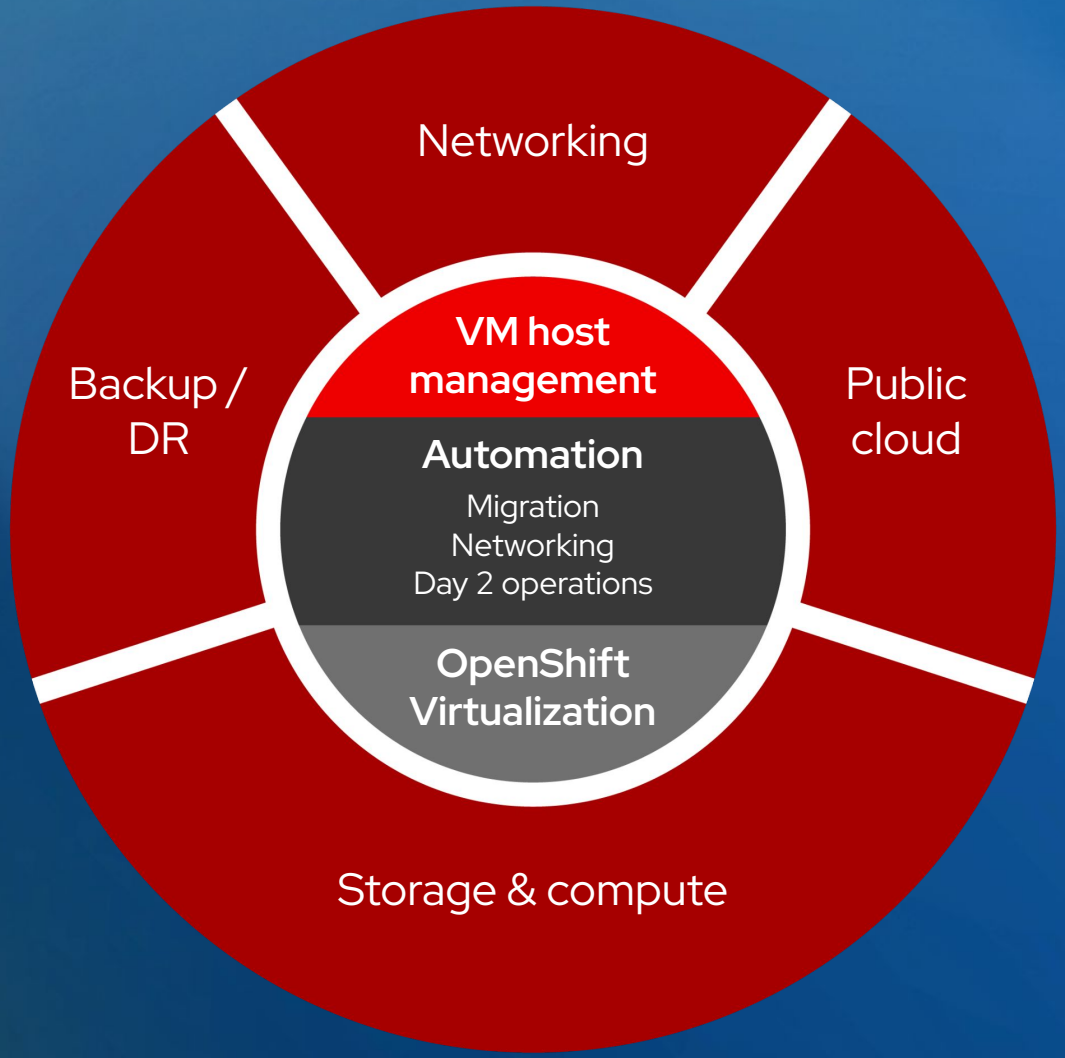
Robust open source community

Diverse partner ecosystem

Unified platform for virtual machines and containers

Open Hybrid Cloud

Open virtualization infrastructure



ISV partners to complete the solution

Storage

Products for OpenShift Virt using CSI (container storage interface)

- HITACHI Inspire the Next
- portworx by Pure Storage
- PURESTORAGE
- DELL Technologies
- Hewlett Packard Enterprise
- NetApp
- IBM Storage Fusion
- INFINIDAT

Backup/DR

Products for OpenShift

- storware
- veeam
- portworx by Pure Storage
- TRILIO

Coming Soon:

- VERITAS
- COHESITY
- Commvault
- rubrik

Networking

Products for OpenShift Virt using CNI (container networking interface)

- ISOVALENT
- TIGERA
- CISCO
- f5

Cloud Services

Current public cloud providers offering OpenShift VIrtualization

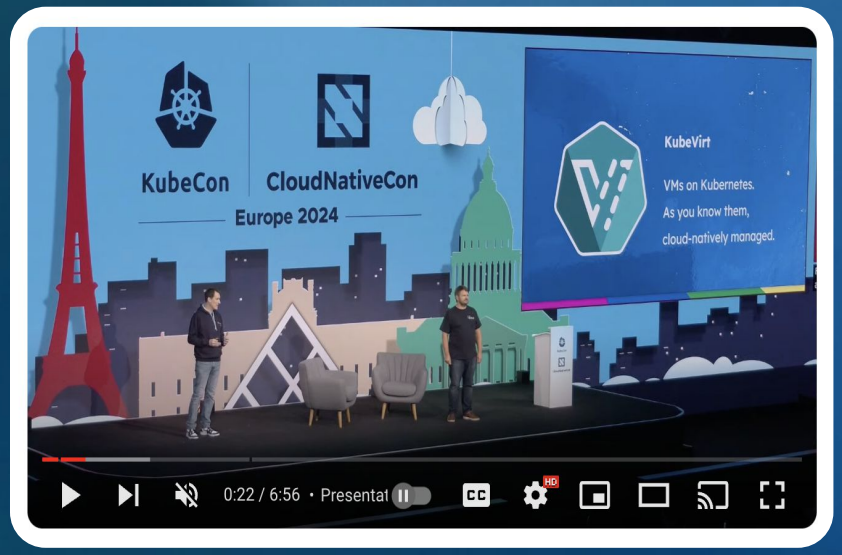
- aws

Additional Information

Red Hat Ecosystem Catalog

Listings of current partner products that are certified or completed statement of support.

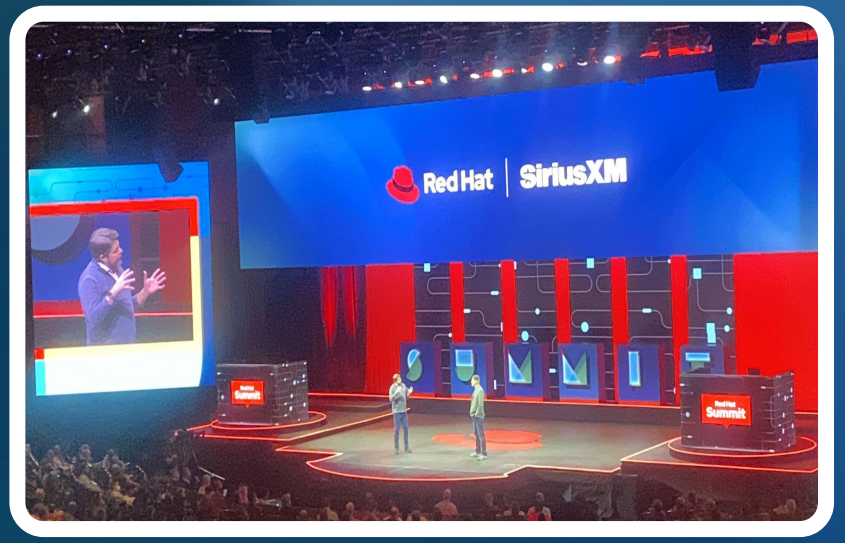
Global Investment Bank



*"...it allowed folks who spent the **last decade or so on existing technologies** to get up to speed with a newer subset of technologies to really help drive to **create a single solution** where we deploy one set of capacity and then burn down that capacity whether it becomes a VM or it becomes a container... a **big thanks to Red Hat team that's stuck with the project**, worked with us day in day out, and really helped enable a solution to help **modernize our underlying compute platform.**"*

—VP Tech Fellow, Global Investment Bank

SiriusXM



*"**Migration was the easiest part**. Once you have MTV [Migration Toolkit for Virtualization] speaking to an API, [the tool] it brings [the VMs] them in quickly with little to no down time. It's the right tool for the job. Once we have the network setup, and everything placed where it needs to be, **the VM goes exactly where you need it to go and starts working immediately**. As far as migration goes, it's a great tool."*

- *Nate Mason, Associate Director, Unix Systems Group SiriusXM*

[Source: Red Hat Summit keynote [starting at 22:57]

Consistent virtualization on-premises and in the cloud

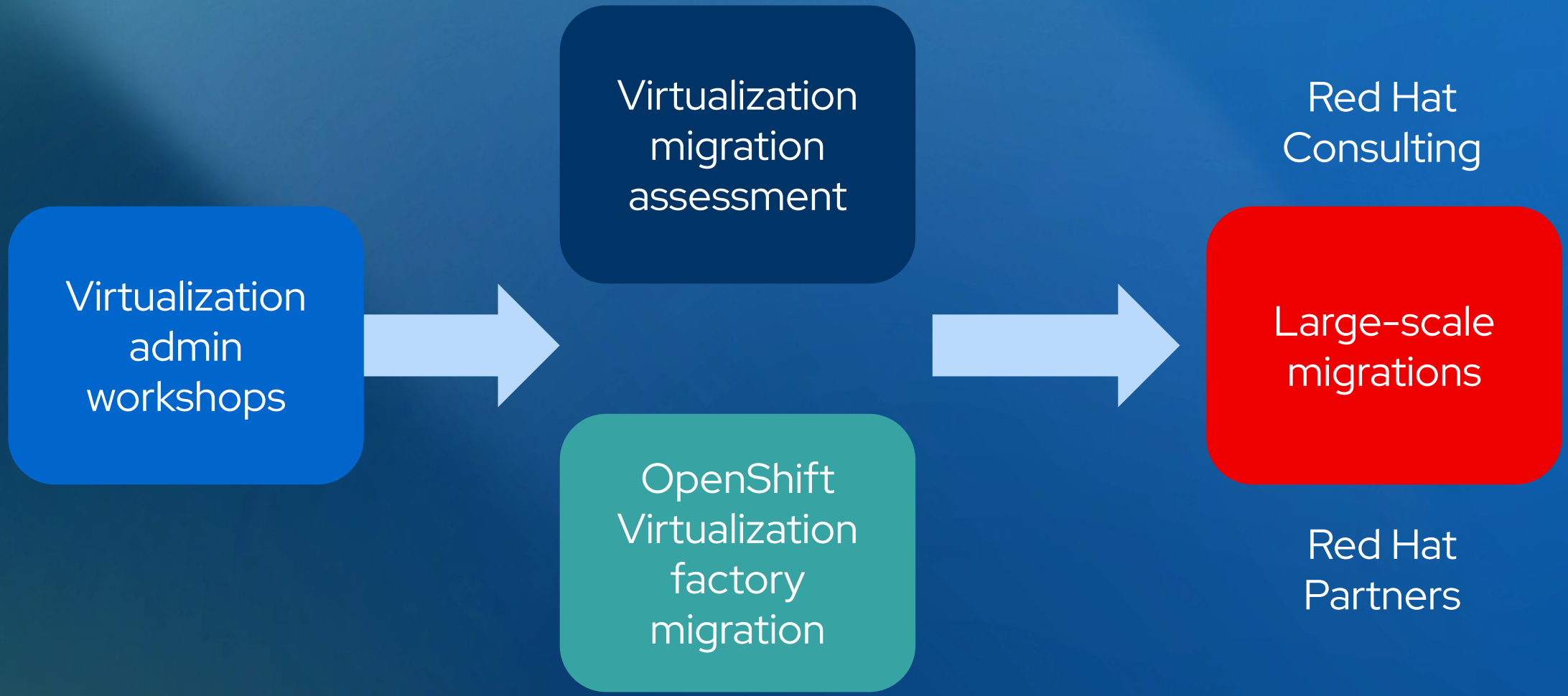
OpenShift Virtualization

On-premises bare metal

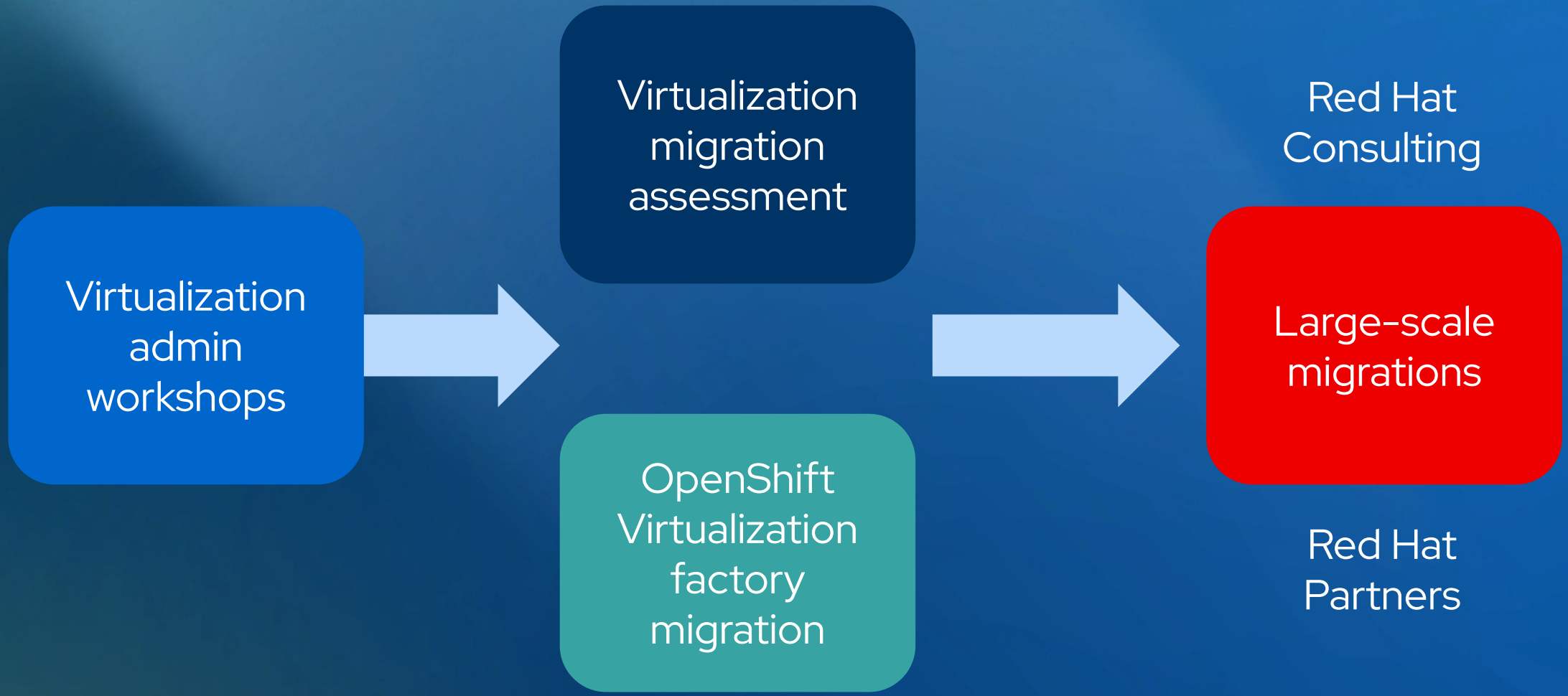
OpenShift Virtualization

Red Hat OpenShift on AWS

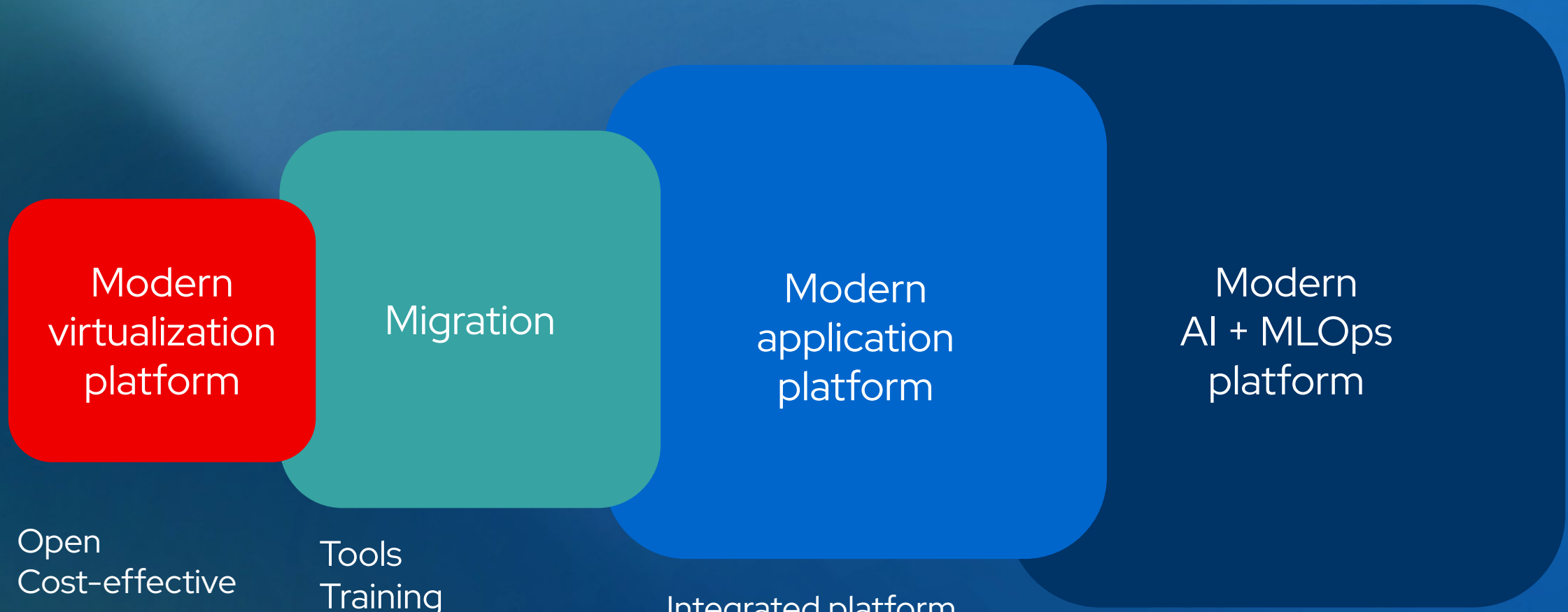
Enabling virtualization migrations and success



Enabling virtualization migrations and success



Future-proof your platform, your applications, your teams



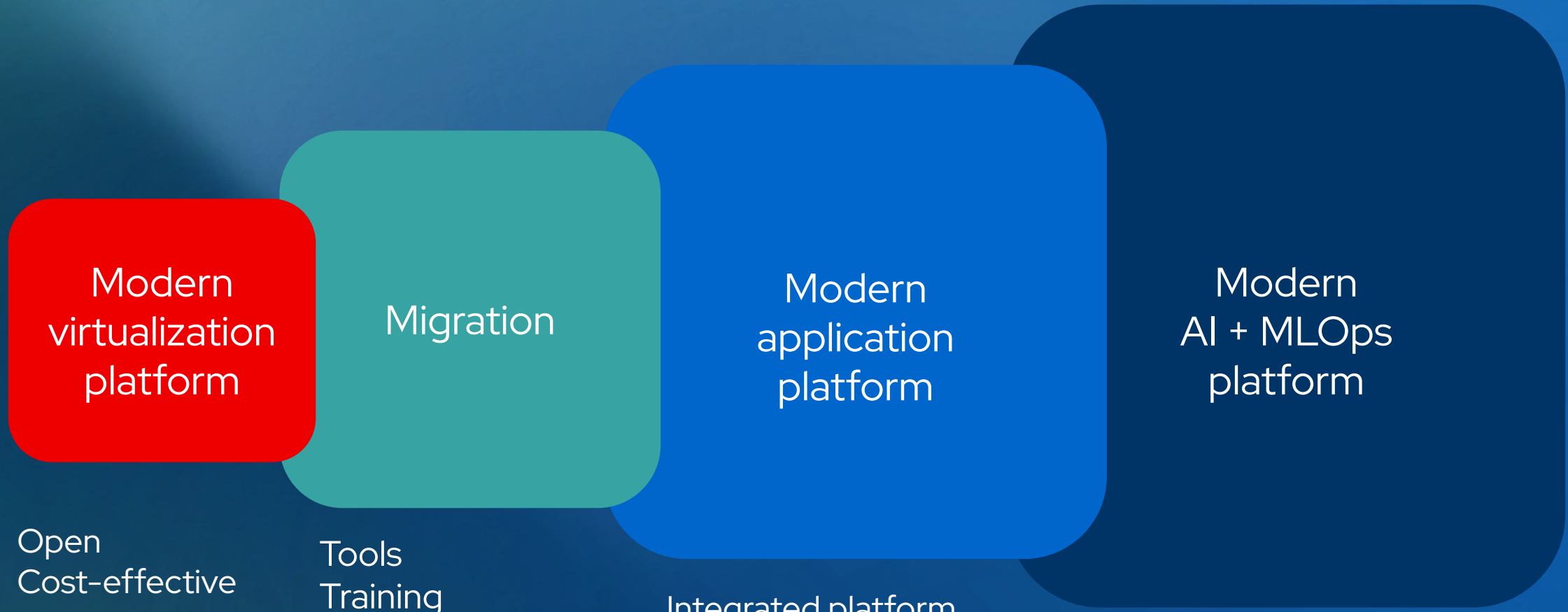
Open
Cost-effective

Tools
Training
Automation

Integrated platform
Integrated teams
Cost-efficient operations

Trusted platform
Choice of models
Faster time to production

Future-proof your platform, your applications, your teams



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Faster time to production

Red Hat for a second year in a row is recognized as a Leader in the Gartner® Magic Quadrant™ for Container Management with highest completeness of vision.

Figure 1: Magic Quadrant for Container Management

Source: Gartner, "Magic Quadrant for Container Management," September 2024

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Gartner, "Magic Quadrant for Container Management," Dennis Smith, Tony Iams, Wataru Katsurashima, Michael Warrilow, Richard Watson, 21 September 2024

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