

eBook

Top Ten Reasons Why Flexible Hybrid Cloud with Hitachi and Red Hat® OpenShift® Virtualization

Table of Contents

01

Trusted enterprise infrastructure platform for VMs and container workloads.

02

Simplify and accelerate migration from legacy virtualization platforms.

03

High-performance infrastructure for faster query responses and workload scalability.

04

Automate your storage operations with the Red Hat OpenShift Container Platform.

05

Continuous service availability and rapid recovery for business operations.

06

Consistent experience across on-premises and public cloud infrastructure.

07

Self-managed and fully managed hybrid cloud platform options are available.

08

Let cloud experts match your business expectations with the right consulting and implementation.

09

The platform enabled the support of modern AI-infused workloads.

10

Reduced operations risk with established Global Support.

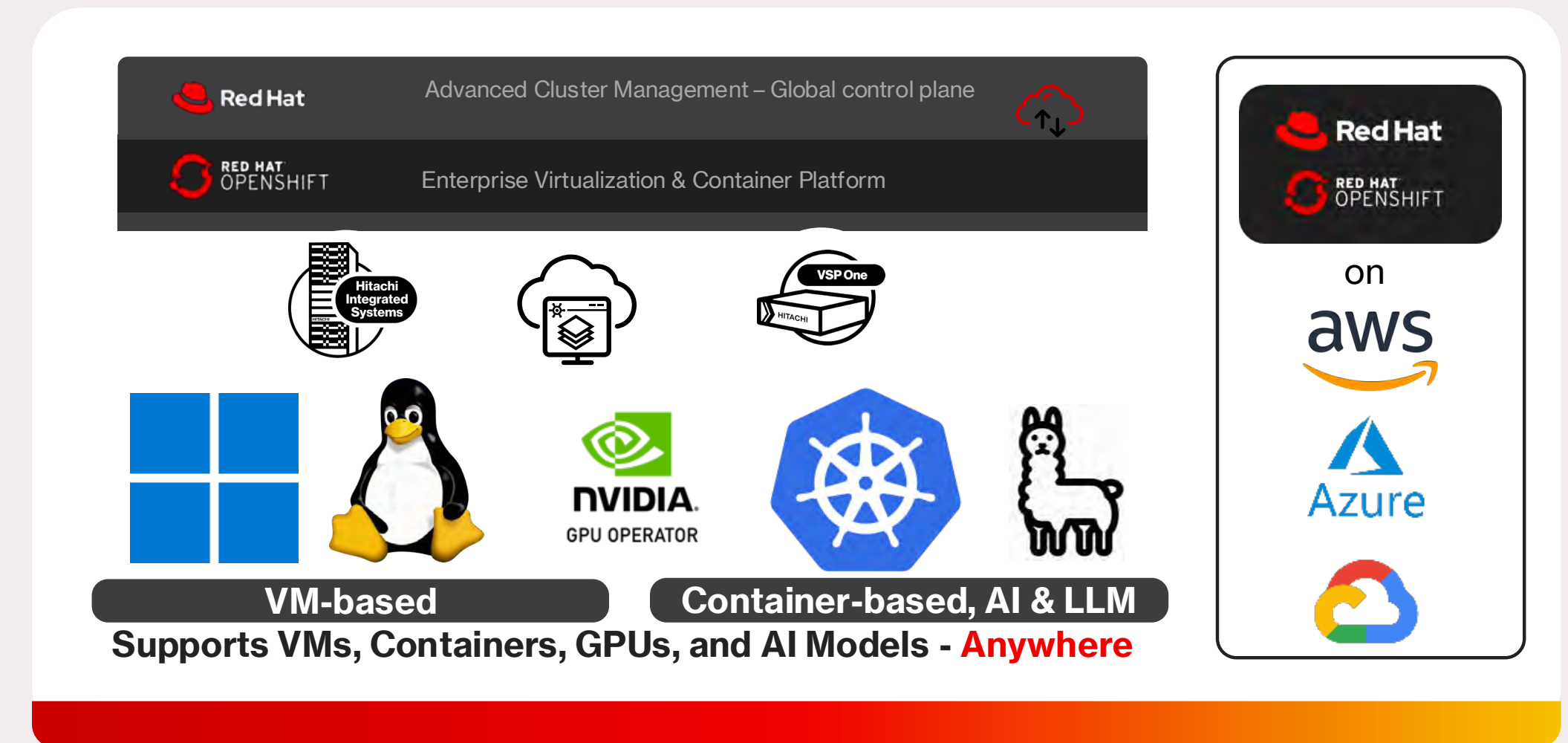
Businesses rely on hybrid clouds to deliver on technology needs that accelerate innovation, reduce costs, and ensure security and compliance.

As customers evolve their hybrid cloud strategy, here are the top ten reasons to partner with Hitachi Vantara and Red Hat to accelerate business growth and improve operational efficiency.



Trusted enterprise infrastructure platform for VMs and container workloads

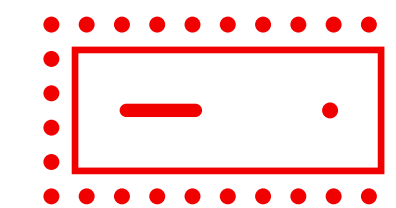
Tens of thousands of customers globally trust Hitachi Vantara [data infrastructure solutions](#) with their business applications, workloads, and data. Customers benefit from scale, performance, resilience, non-disruptive upgrades, and no-loss data migration to power their business and align with the growth strategy. Whether you are meeting internal needs focused on enabling a robust [container-hosted infrastructure with Red Hat OpenShift Container Platform](#) or meeting mandates to support virtual machine workloads with Red Hat OpenShift Virtualization, Hitachi Vantara has the experience to meet your enterprise requirements.



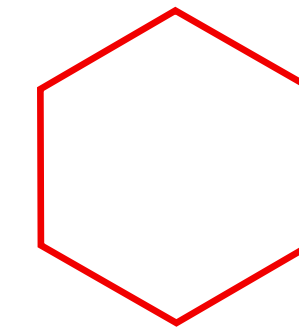
Simplify and accelerate migration from legacy virtualization platforms

Migrate large VMware workloads to Red Hat OpenShift Virtualization up to 10x faster while reducing downtime. Storage offload with VSP One eliminates network congestion and preserves compute resources, ensuring business services remain available. Enterprises can modernize infrastructure confidently, reducing project risk and accelerating the move to a unified VM and container platform.

Accelerate your application development with containers while building on your familiarity and experience with virtual machines with a unified platform. Running two separate platforms for containers and VMs may result in complexity, inefficiency, and resource fragmentation. The [unified cloud platform with Hitachi Vantara and Red Hat OpenShift Virtualization](#) streamlines infrastructure deployment, day two management, monitoring, and alerts across both virtual machines and containers. It reduces duplicate efforts and quickly adapts to new business requirements. Check out the [Beyond Boundaries: Transforming Workloads with Red Hat OpenShift Virtualization](#) recorded webinar, which is covered in detail by product leaders from Red Hat and Hitachi Vantara.



VMs



Containers

Red Hat OpenShift Virtualization

Red Hat OpenShift Container Platform

Red Hat Enterprise Linux

Hitachi Storage and Integrated Systems

High-performance infrastructure for faster query responses and workload scalability

Businesses derive intelligence from datasets to innovatively serve their customers and grow revenues. **High-performance integrated compute and data infrastructure** from Hitachi combined with Red Hat software stack(s) deliver rapid response times and accelerated performance to application users and simplify infrastructure management by consolidating database workloads at any scale.



Automate your storage operations with the Red Hat OpenShift Container Platform



Hitachi's infrastructure management and automation software accelerates application deployment and drastically simplifies storage and converged infrastructure deployment, configuration, life cycle management, and ongoing operations with advanced policy-based automation and orchestration for private and hybrid cloud environments. Specifically, storage automation with rich data services, including Red Hat OpenShift certified CSI drivers for Block and File and S3 accessible API platforms, can support VMs and container workloads. Hitachi CSI drivers are available

on [the Red Hat Catalog](#) and Operator hub, making these available to be installed directly from OpenShift UI. We extend that storage automation performance, health, and capacity monitoring capabilities via integrated dashboards served up by Grafana.

For administrators outside the Red Hat OpenShift Container Platform who want to tap into highly available storage, Hitachi's new Ansible storage modules and playbooks are available to automate those storage provisioning tasks. Whether provisioning volumes to bare metal Red Hat

Enterprise Linux hosts or managing ongoing storage tasks on day two for other platforms, these modules simplify the process, ensuring that your storage requests are optimally configured and meeting your business workload requirements.

Continuous service availability and rapid recovery for business operations

Unavailability of business services due to unforeseen events such as hardware failures, site unavailability, grid failures, etc., poses severe threats to your business, reputation, and revenue strategies. In addition to [Hitachi VSP One](#) offering 100% data availability for continuous innovation and business services, we leverage advanced data protection technologies such as Universal Replication and Global Active Device with Hitachi storage and integrated systems to help protect against failures and outages and provide disaster recovery, planned migration, high availability, and business continuity outcomes depending on the configuration selected.

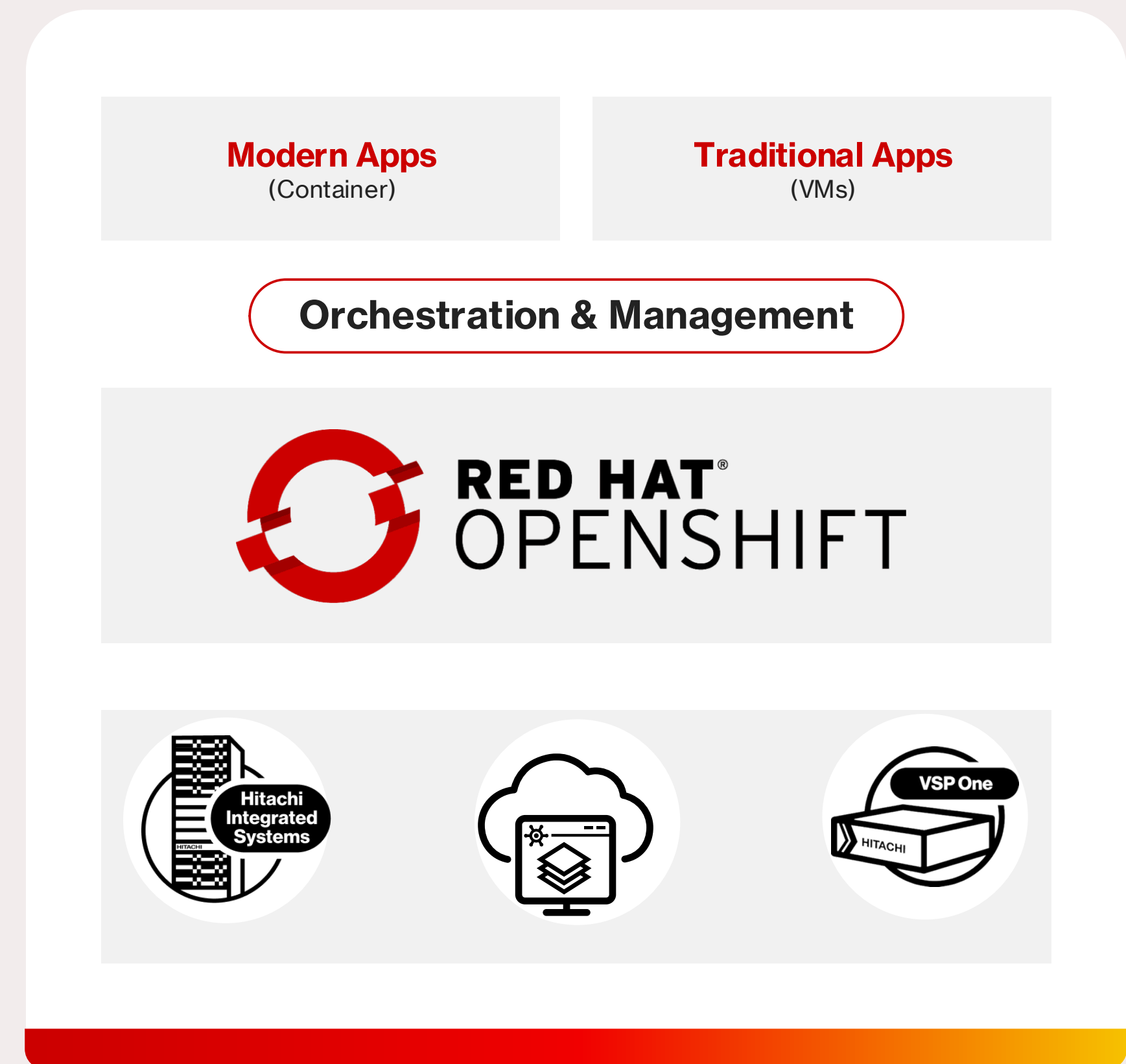
These capabilities are available to Red Hat OpenShift Platform operators and administrators directly via add-on operators and CRDs like HRPC, allowing the teams to create these highly available persistent or DR-capable volumes like regular, persistent volumes within their YAML manifests. For more details, check the latest Red Hat OpenShift Virtualization reference architecture on Hitachi.

In addition, we provide a reference pattern leveraging OpenShift GitOps to showcase how customers can effectively automate both planned migrations and unplanned or disaster recovery situations to allow applications/workloads to become available on the second site. This automates application/workload recovery, including updated access to the replicated storage.



Consistent experience across on-premises and public cloud infrastructure

Flexibility to innovate anywhere is one of the primary drivers behind the growing adoption of the hybrid cloud model. Hitachi Vantara data infrastructure and the Red Hat OpenShift Container Platform, including virtualization capabilities to host virtual machines, enable customers to build and move workloads to environments that help deliver the best SLA's cost, performance, availability, etc. Data infrastructure solutions, including [VSP One Block](#) and [VSP One SDS Cloud](#), provide the storage foundation, allowing you to run and migrate workloads across multiple on-premises and public clouds, which helps optimize resource usage and maximize application while maintaining operational consistency.



Self-managed and fully managed hybrid cloud platform options are available

Engaging trusted experts and partial to fully managed services available to deploy, operate, and manage all aspects of the platform infrastructure frees your IT teams to focus on other IT service outcomes and drive more value for your business. Our cloud experts include architects, operators, and trainers to help you run your systems, keep IT costs low, and focus on your SLAs. The service implementations open self-service model access to end business users, allowing them to rapidly and securely deploy preapproved resource configurations without waiting to process IT service tickets. Hitachi Vantara [EverFlex Infrastructure as a Service](#) offerings for VMs and containers with Red Hat OpenShift enable customers to embrace the cloud operating model anywhere, with on-demand self-service templated resource consumption. Hitachi EverFlex Control can execute predefined and custom workflows to provision and, when combined with alerts, perform self-healing with automated responses to requests and problems.



Let cloud experts match your business expectations with the right consulting and implementation

Designing, implementing, and operating a hybrid cloud infrastructure could be tricky if not planned and executed carefully. Customers reduce the operational risk by partnering with the Hitachi Vantara Professional Services Delivery and partners' virtualization and cloud expert teams to maximize the benefits of the hybrid cloud.

Our certified and partner experts bring rich experience, expertise, and skills to help design the best cloud architecture for your business. We also provide the option to leverage our [Hitachi EverFlex](#) Managed Service program, which enables customers to run a hybrid cloud with a small team and offload day two management and operations to professionals.

The platform enabled the support of modern AI-infused workloads

Red Hat® OpenShift® AI is a flexible, scalable artificial intelligence (AI) and machine learning (ML) platform that runs on top of Red Hat OpenShift and enables enterprises to create and deliver AI-enabled applications at scale across hybrid cloud environments. AI models are only as complete as the data supporting that AI pipeline, making the combination of Hitachi Vantara Data infrastructure platforms, including world-leading performance parallel file servers and NAS platforms, the right choice to support that data pipeline.



Reduced operations risk with established Global Support

Hitachi Vantara support teams are globally recognized as delivering a responsible experience for full-stack cloud infrastructure. Red Hat and Hitachi Vantara have established cooperative support frameworks that allow us to continue providing the experience our enterprise customers require. This results in clear communication and seamless coordination between different service areas to deliver a streamlined operational experience that allows customers to continue to experience the best of both worlds.

Explore flexible hybrid solutions with Hitachi Vantara and Red Hat.

[Learn more →](#)



Hitachi Vantara

About Hitachi Vantara

Hitachi Vantara is transforming the way data fuels innovation. A wholly owned subsidiary of Hitachi Ltd., we're the data foundation the world's leading innovators rely on. Through data storage, infrastructure systems, cloud management and digital expertise, we build the foundation for sustainable business growth.

