

eBook

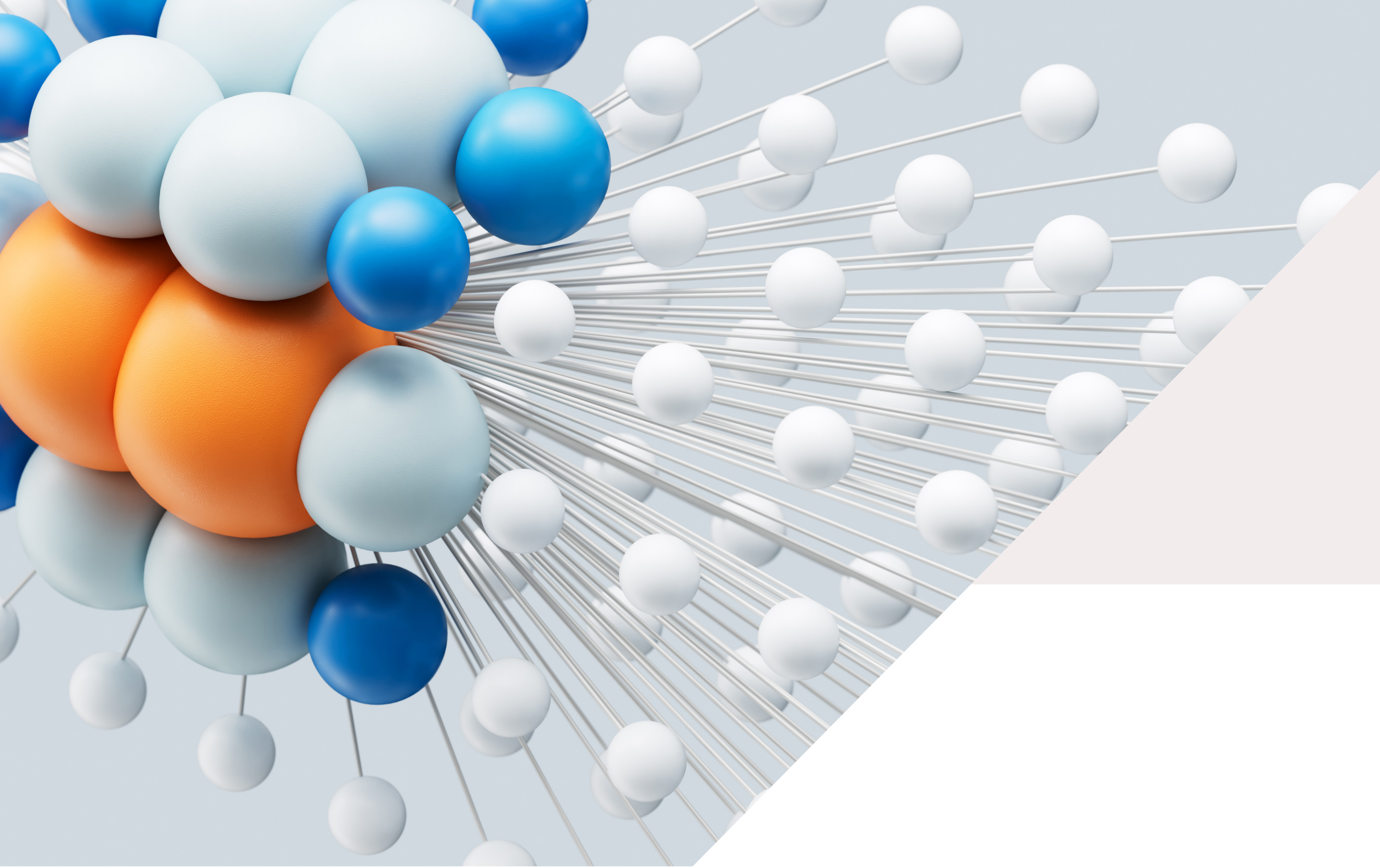
Top 5 Reasons to

Build Resilient Cloud Infrastructure

With Hitachi Storage and
VMware Cloud Foundation®

Businesses are under relentless pressure to deliver always-on services while controlling cost and risk. A single outage, whether caused by a cyberattack, network failure or natural disaster, can halt revenue streams, disrupt customer transactions and violate regulatory service-level agreements.

The financial impact is immediate and severe: Every minute of downtime can mean lost sales, penalties and diminished market confidence.



Executive Summary

In an era where business continuity and rapid innovation are critical, the Hitachi Integrated Systems with VMware Cloud Foundation (VCF) solution delivers a resilient private-cloud platform designed for zero data loss, automated disaster recovery and always-on availability. Built on a resilient three-data-center (3DC) architecture, this pre-engineered solution unites enterprise-grade Hitachi Virtual Storage Platform One ([VSP One](#)) storage and VMware Cloud Foundation to simplify deployment, streamline operations and provide unmatched scalability and cyber-resiliency for mission-critical workloads.

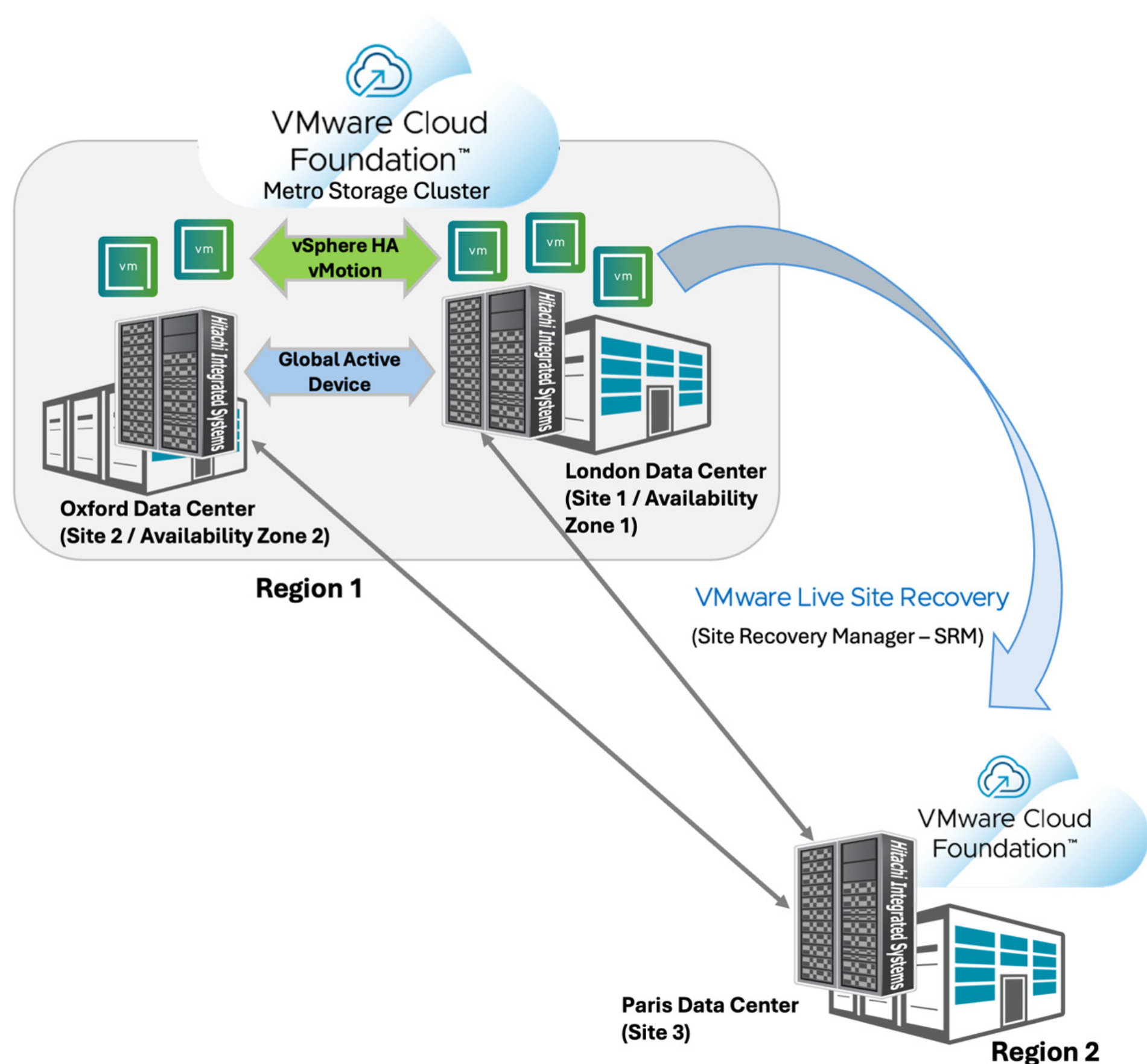
Below are top five reasons why Hitachi Integrated Systems solution powered by VSP One storage and VMware Cloud Foundation is the best choice for designing an always-on data platform.

1

Continuous Operations With Multisite High Availability

Business continuity demands more than basic disaster recovery. It requires an infrastructure that keeps services running around the clock.

The Hitachi and VMware solution leverages a 3DC architecture with VMware vSphere® Metro Storage Cluster (vMSC) to treat multiple sites as a single, unified environment. Applications and workloads move effortlessly between locations, enabling automatic failover without user disruption. Whether facing planned maintenance or an unexpected outage, organizations can maintain service levels and meet stringent SLAs while IT teams enjoy simplified management and reduced operational risk.

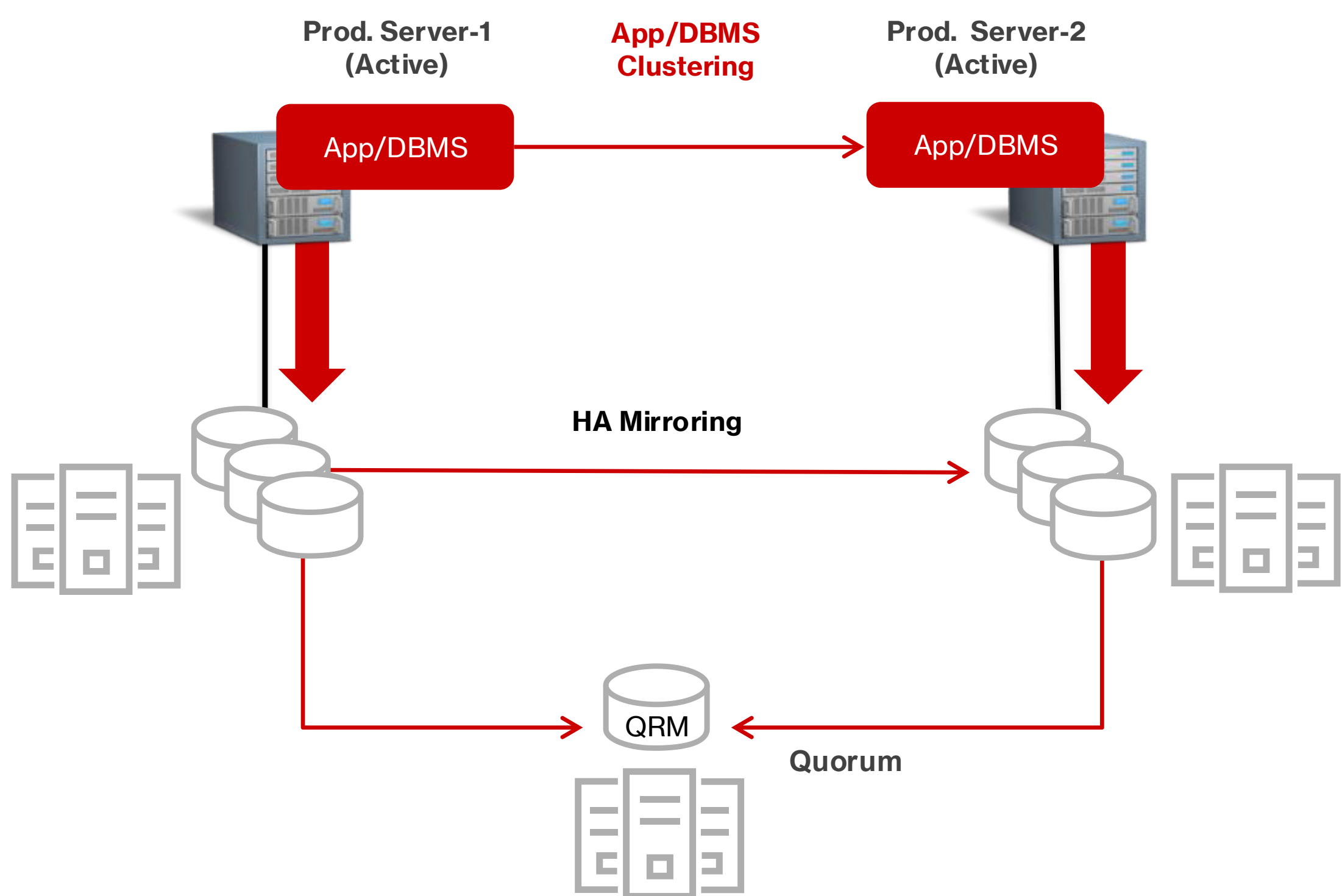


vSphere = VMware vSphere, vMotion = VMware vMotion, HA = high availability

2

Zero Data Loss With Active-Active Resilience

Enterprises can no longer tolerate downtime or data loss when critical applications support payments, healthcare or customer-facing services. A one-minute recovery point objective (RPO) is not an option in those environments. Hitachi global-active device (GAD) technology delivers active-active replication across two data centers, ensuring that every write is synchronously committed in real time. This design achieves a zero RPO and a near-zero recovery time objective (RTO), ensuring operations continue seamlessly even in the event of a site failure. For business leaders, this means uninterrupted services, preserved revenue streams and stronger customer confidence, backed by enterprise-grade data consistency.



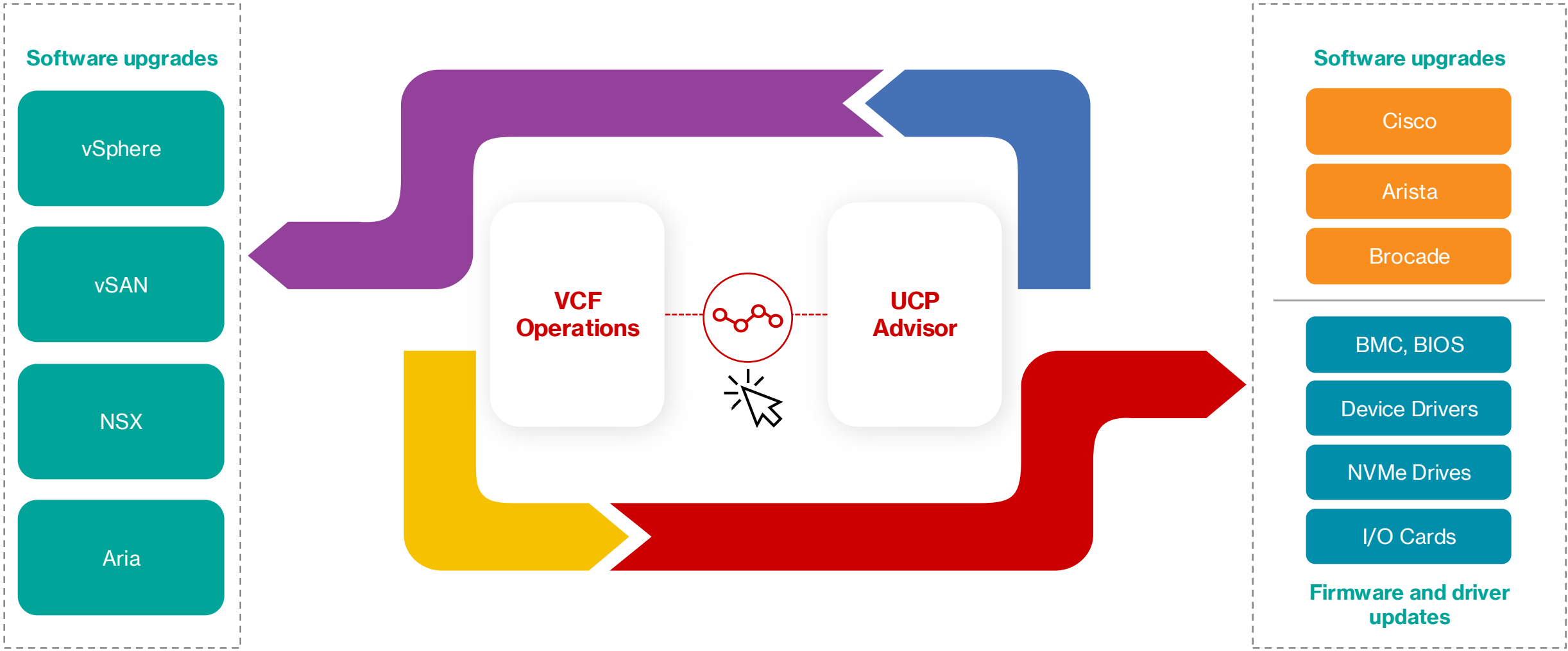
DBMS = database management system, HA = high availability, QRM = quorum, DKC = disk controller chassis

3

Simplified Hybrid Cloud Deployment and Lifecycle Management

Accelerating time-to-market is essential in a competitive digital economy, but traditional private cloud deployments are complex and time-consuming. The [Hitachi Integrated Systems](#) with VMware Cloud Foundation solution changes the game with a pre-validated, pre-engineered stack that integrates compute, storage and networking.

Automated, policy-driven operations and full-stack lifecycle management eliminate manual processes, reduce errors and shorten deployment cycles from weeks to hours. The result is faster time-to-value, lower total cost of ownership (TCO) and the agility to scale infrastructure as business demands evolve.



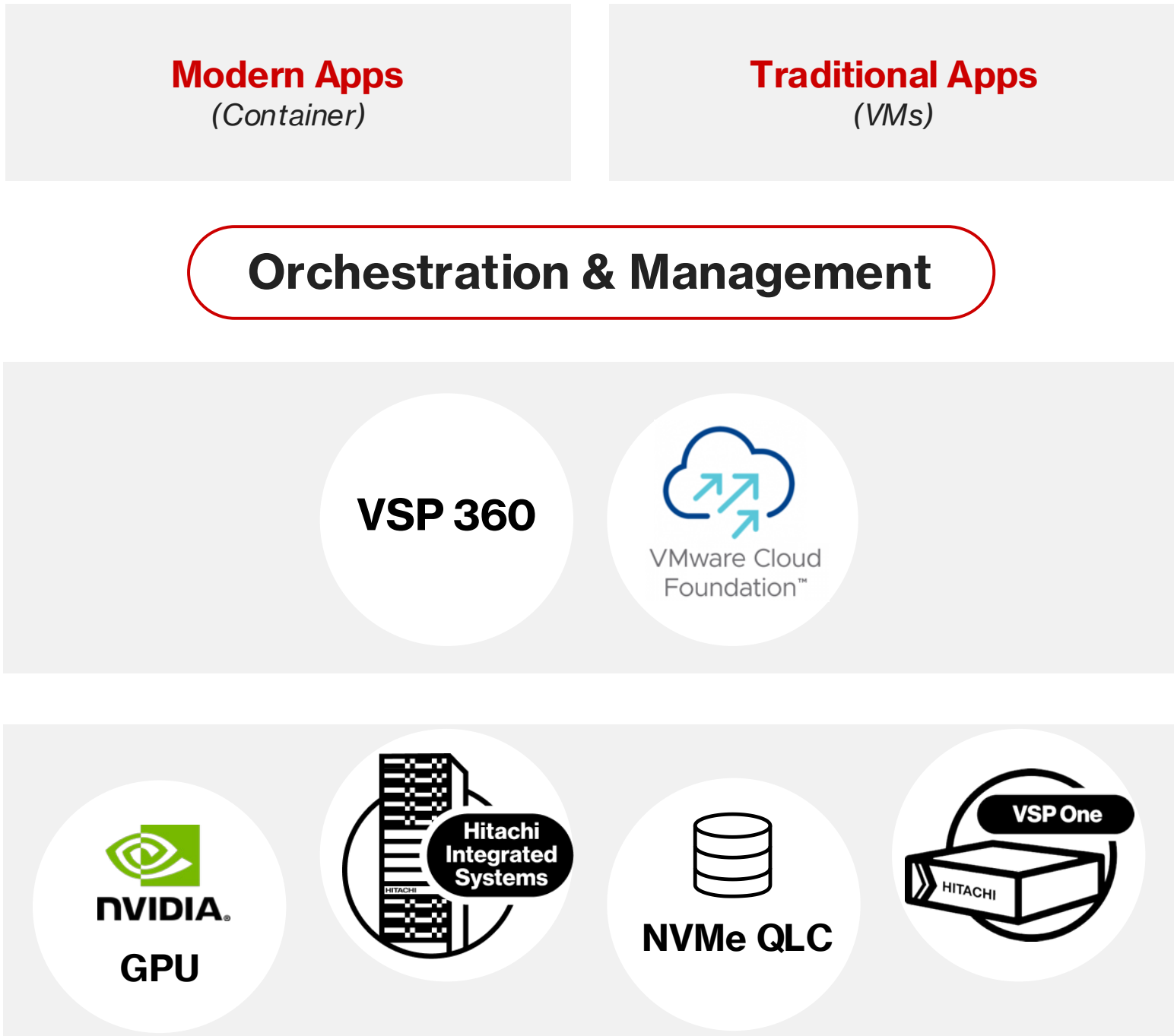
UCP Advisor = Hitachi Unified Compute Platform Advisor, VCF = VMware Cloud Foundation, VM = virtual machine



Flexible, High-Performance Storage for Any Workload

Modern enterprises require a storage platform that adapts and accommodates diverse workloads from databases and analytics to AI/ML and containerized applications. Hitachi Virtual Storage Platform One integrates deeply with VCF to deliver SAN-based storage with ultra-low latency, adaptive data reduction and independent scaling of compute and storage resources.

Unlike hyperconverged-only solutions, this architecture supports the right storage tier for every application, optimizing both cost and performance. Businesses gain the flexibility to grow without compromise while ensuring predictable high-speed access to critical data. VSP One allows customers to get their choice of deployment flexibility using Fibre Channel or Ethernet with NVMe over TCP or iSCSI.



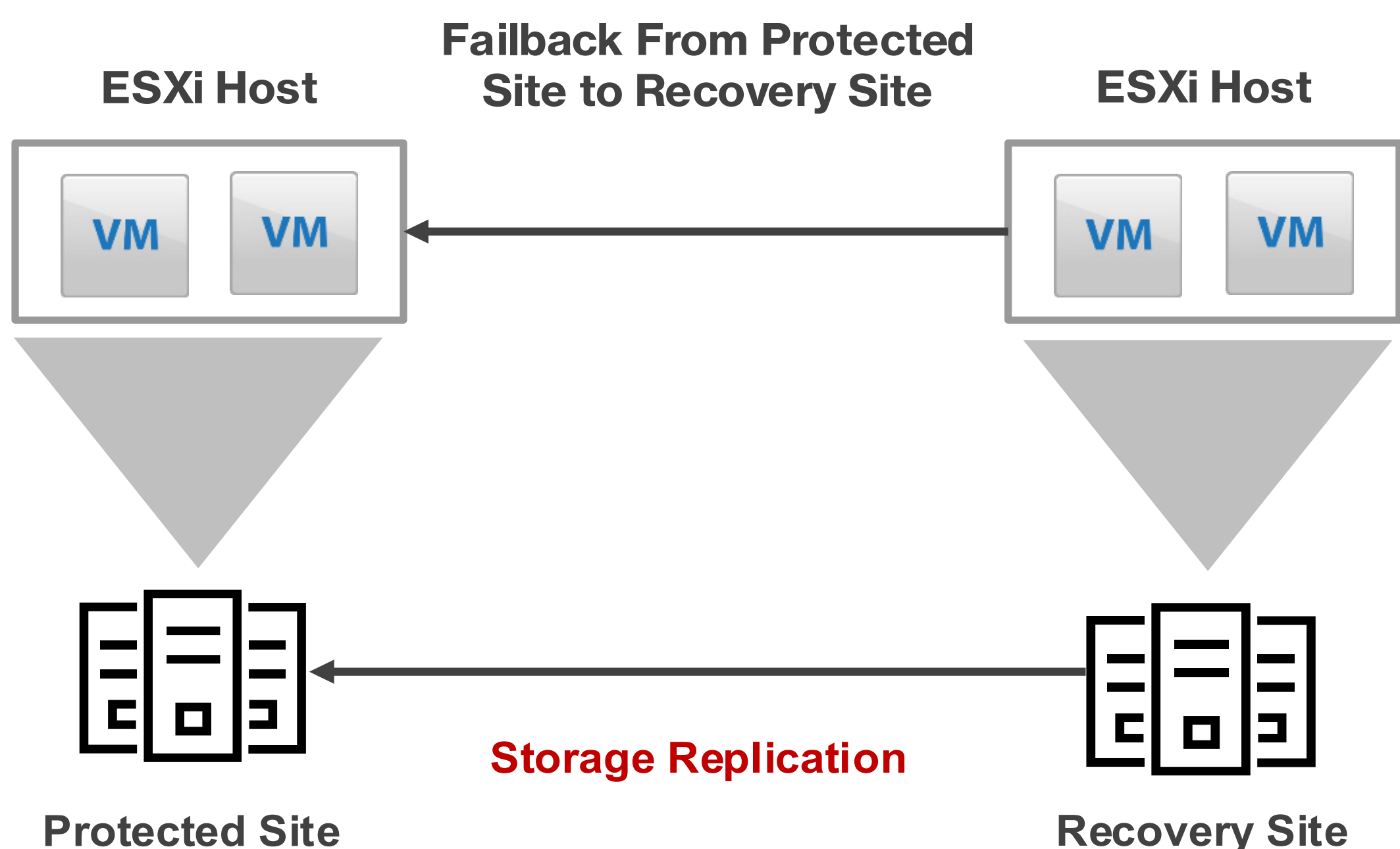
VSP 360 = Hitachi Virtual Storage Platform 360, VSP One = Hitachi Virtual Storage Platform One, VM = virtual machine, NVMe QLC = nonvolatile memory express quad-level cell

5

Smarter Recovery With Future-Proof Automation and Orchestration

Data protection is no longer just an IT concern — it's a board-level priority. Hitachi and VMware provide a multi-layer defense with immutable snapshots, Hitachi Universal Replicator (HUR) for asynchronous long-distance replication, and VMware Live Site Recovery (VLSR, formerly known as SRM) for automated orchestration of failover and failback.

Together, these technologies protect against ransomware attacks, ensure compliance with data retention and disaster recovery regulations, and enable rapid recovery across regions. Organizations can confidently meet regulatory mandates and security requirements while maintaining operational continuity in the face of evolving cyber threats.



ESXi = VMware ESXi®

Building a truly resilient infrastructure requires more than just strong hardware or cloud flexibility — it demands a unified platform that protects data, ensures availability and scales with business growth. Hitachi's VSP One storage and VMware Cloud Foundation bring these capabilities together in a proven, pre-engineered solution.

From zero data loss and automated failover to simplified lifecycle management and cyber-resilient architecture, this combination empowers enterprises to deliver uninterrupted services, meet strict compliance mandates, and confidently embrace future workloads. With Hitachi and VMware, resilience becomes a strategic advantage, not just an IT goal.

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.

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