

Wie ein deutscher Krankenversicherer AI zur Optimierung von Arbeitsabläufen nutzt

Red Hat OpenShift.AI zur Verbesserung von Workflows



Verkürzte Fassung

IBM Fusion HCI



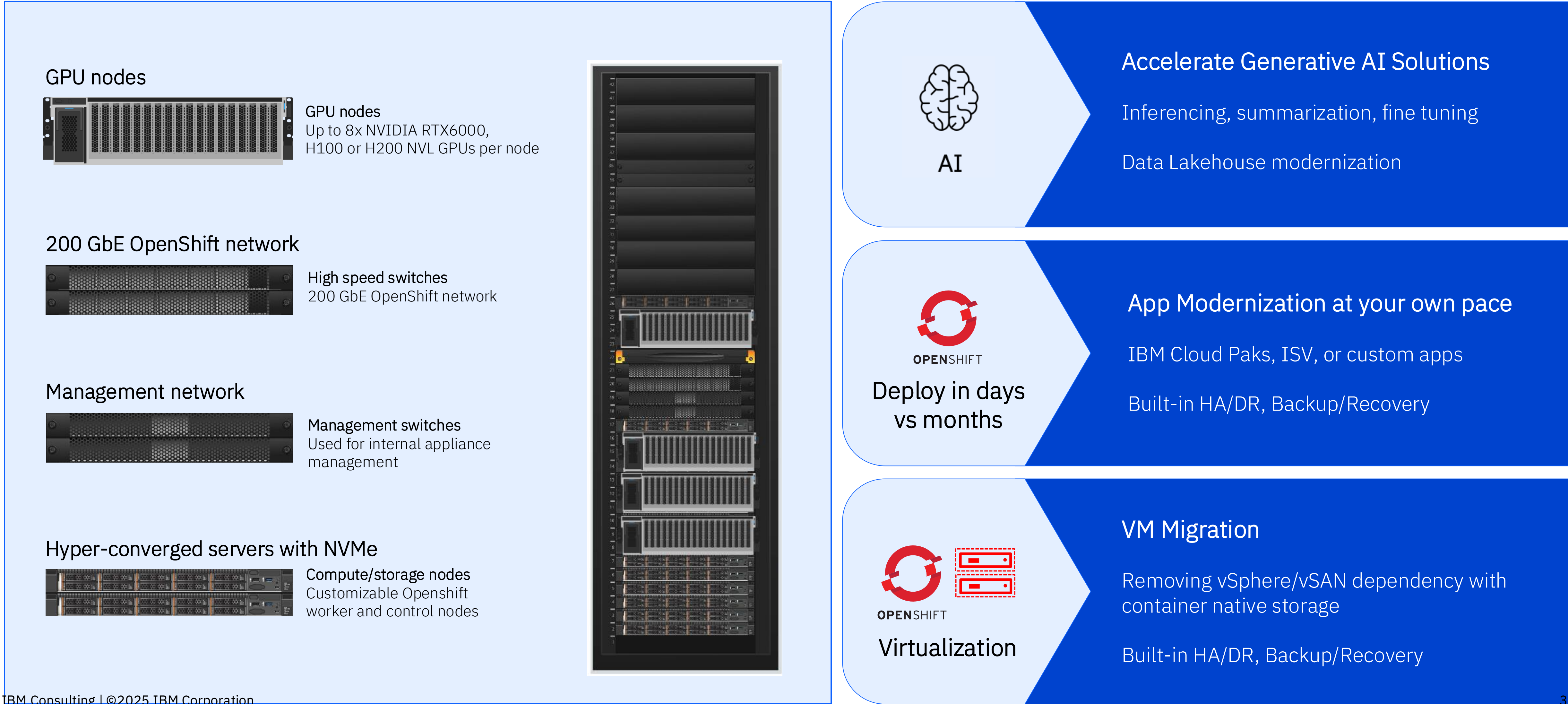
“Red Hat OpenShift in a Box”

- OpenShift installed by IBM
- Bare Metal Performance
- Scalable
- Resilient
- Highly Available



What is Fusion HCI?

An engineered infrastructure platform optimized for OpenShift, VM and AI workloads



More flexibility for AI-centric solution designs



Flexible primary rack
removes the requirement for
six storage nodes

1

2

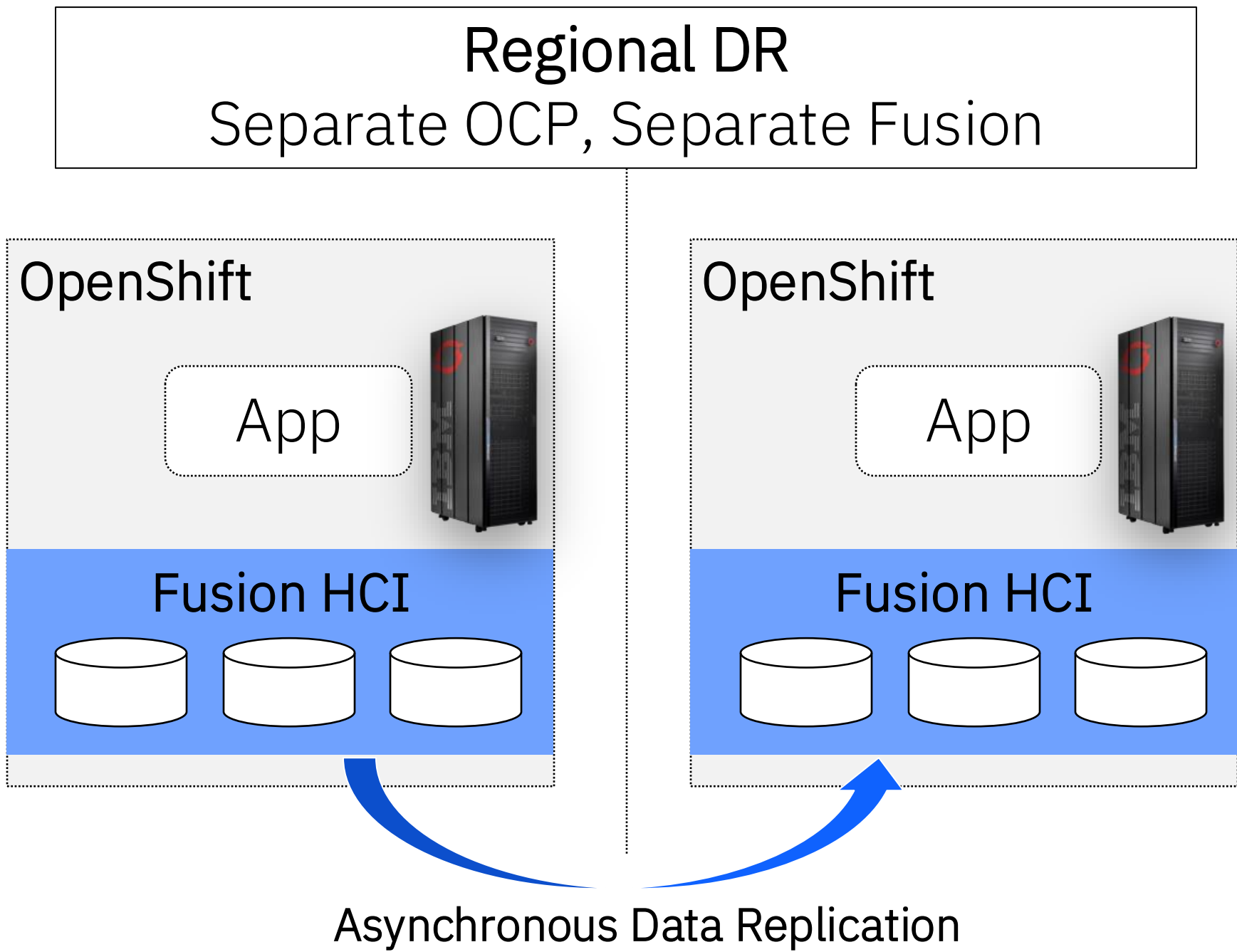
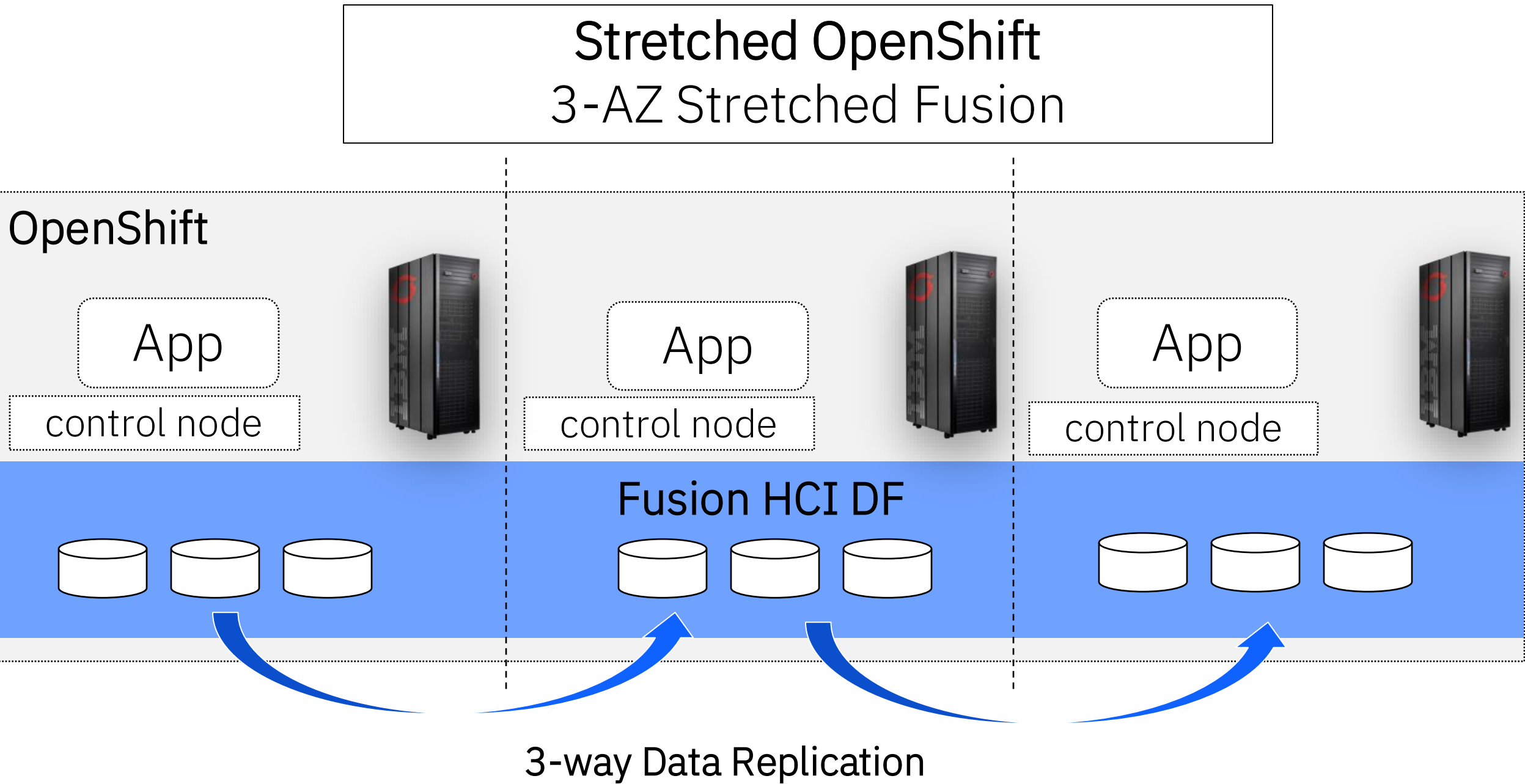
Dell GPU nodes enable AI-
solutions on non-Lenovo
hardware

3

Flexible expansion rack
enables racks of GPU nodes
for inferencing at scale

Disaster Recovery

Data Foundation with internal storage

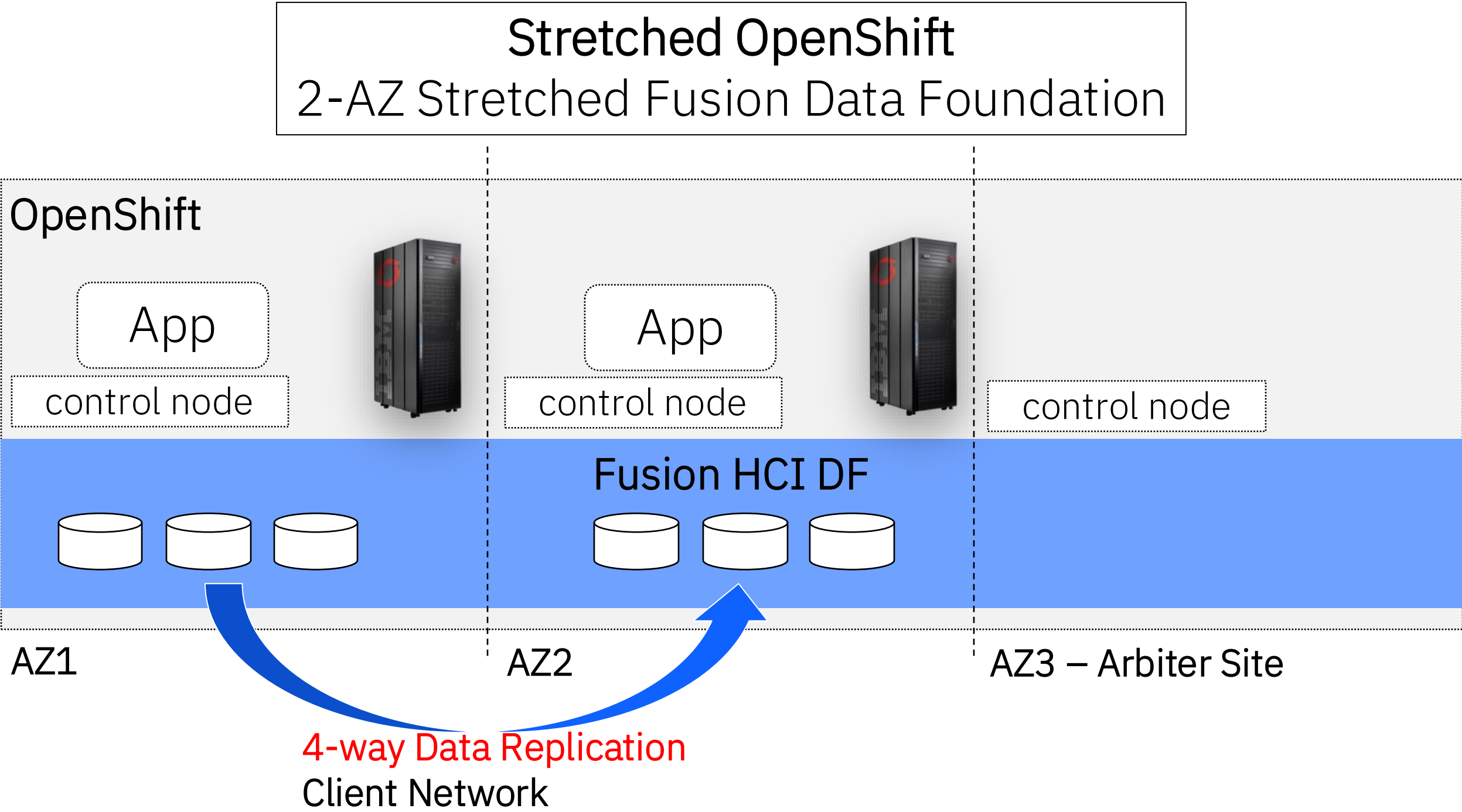


Topology	One OCP cluster, one DF cluster	RHACM orchestration required. 1 Primary replicates to 1 DR.
RTO (downtime)	RTO=0 (continuous)	RTO=variable
RPO (data loss exposure)	RPO=0	RPO=5 minutes
Infra requirements	On-prem; usually <10ms latency between sites	No network latency limits

Disaster Recovery

Data Foundation with internal storage

Fusion 2.11



- 3 AZs in a metropolitan area
- Fusion HCIs connected over client network
- AZ3 contains only a single control node customer rack and networking required
- Data synchronously replicated across AZ1 and AZ2
- Two replicase of the data in AZ1 and AZ2
- Control plane distributed over all three zones
- This is NOT OpenShift 2AZ + Arbiter

Topology One OCP cluster, one DF cluster

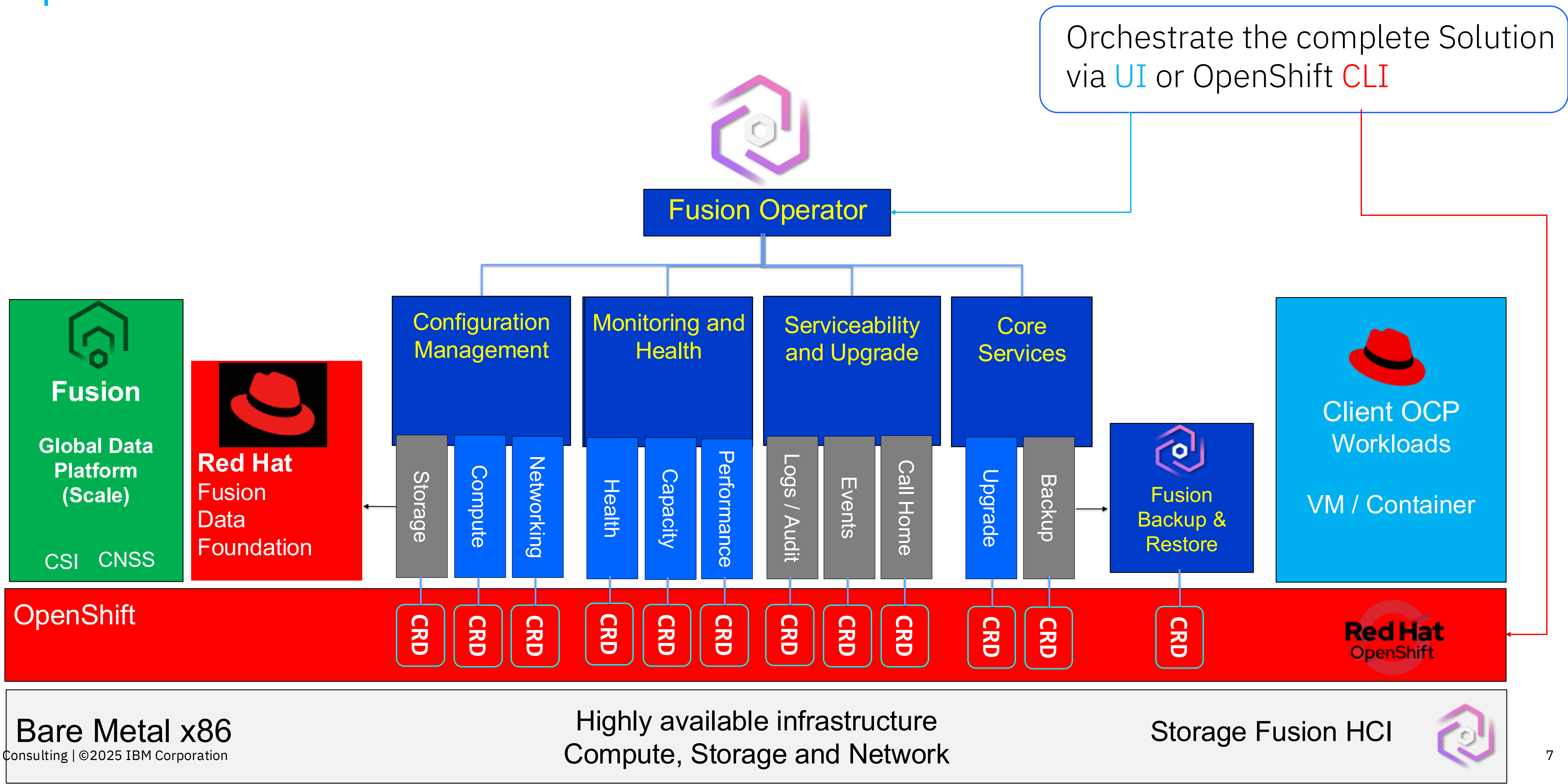
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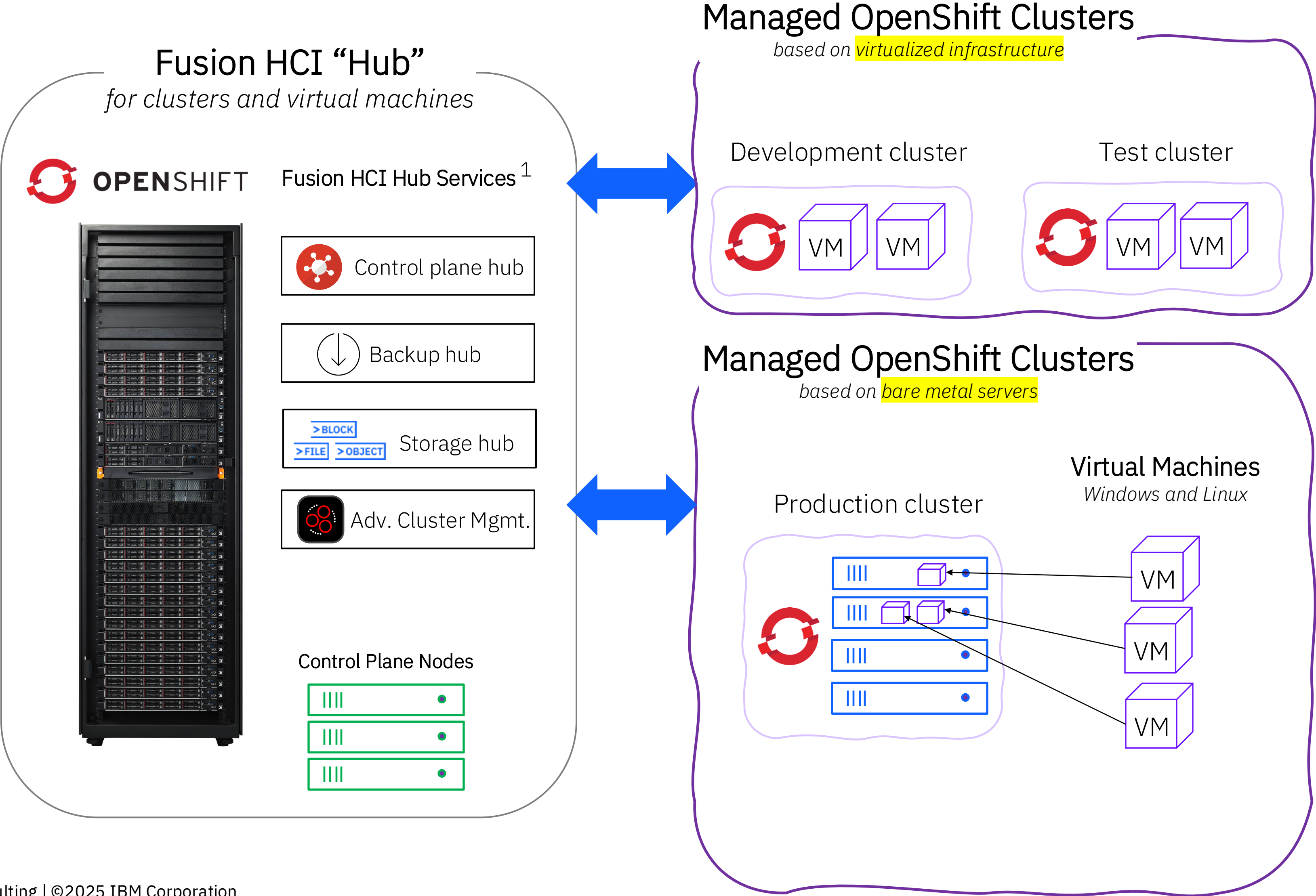
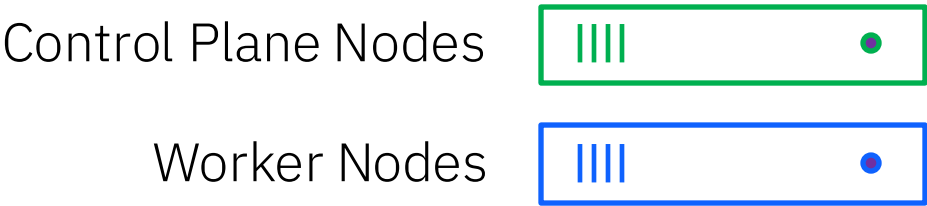
IBM Fusion

Complete Container Native Software Architecture



Fusion HCI can host multiple Openshift Clusters

based on virtual machines or bare metal

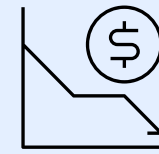
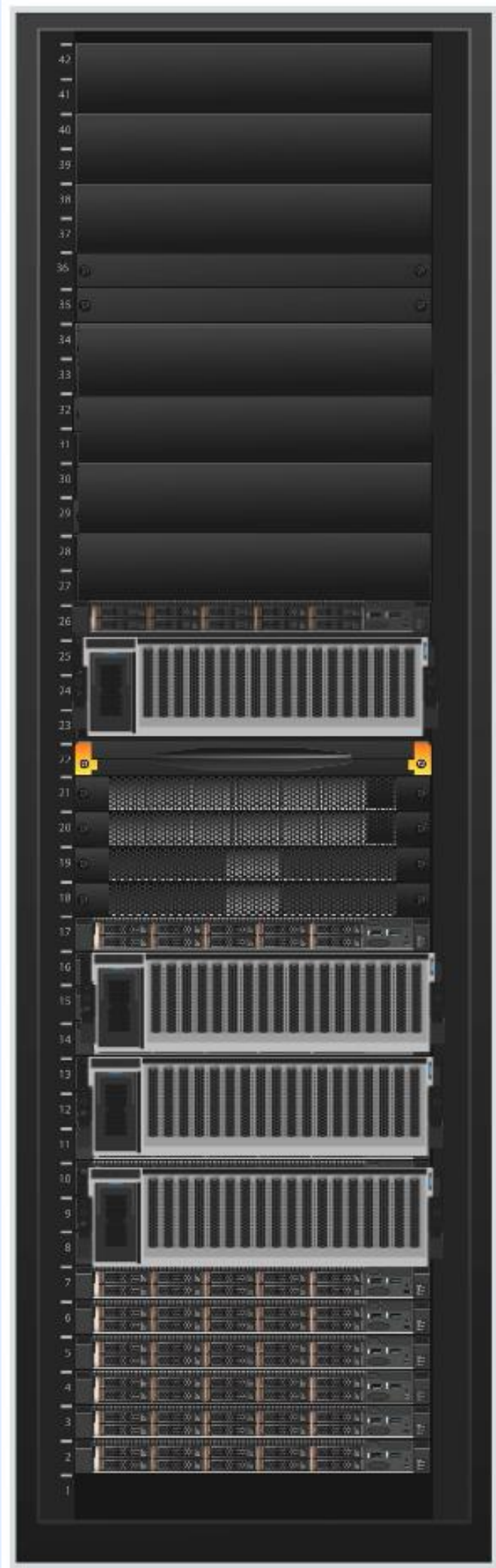


Key Concepts

- Leverages Hosted Control Planes
- Red Hat Advanced Cluster Manager to deploy hosted clusters
- Fusion Data Foundation provider mode: Clients to consume storage from the hub
- Fusion Backup & Restore hub and spoke architecture
- Strong storage tenant isolation between hosted clusters (Data Foundation)
- Allows to deploy different OpenShift versions within one Fusion HCI Rack.

¹ OpenShift and Advanced Cluster Manager are purchased separately

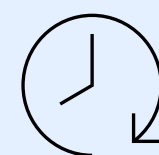
The IBM Fusion HCI business case



Reduce Complexity & Costs

- Slash infrastructure overhead with a turnkey solution—no DIY headaches.

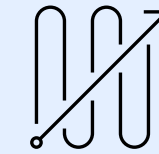
Value – Faster time to market, reduce costs to integrate, deploy and maintain.



Accelerate Time to Value

- Deploy in days, delivering immediate ROI and faster innovation cycles.
- Spend more time on applications ... less time on infrastructure

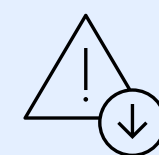
Value – Accelerate Time to Revenue with an integrated, well tested, and flexible platform.



Streamline Operations

- Simplify deployment, updates, and maintenance through automated, centralized management.

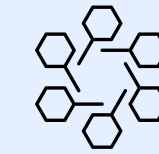
Value – Sustain higher levels of availability and increase client satisfaction.



Reduce Risk

- Leverage advanced HA/DR capabilities to safeguard critical workloads and prevent downtime.
- One company for delivery, one number for support

Value – Reduce risk of missed schedules, and performance objectives.



Future-Proof Investments

- Support containers, VMs, and AI workloads as technologies evolve

Value – Easily adapt to emerging technologies and evolving workloads.



Empower Developers

- Provide on-demand clusters for rapid prototyping, seamless testing, and continuous delivery.

Value – Free up time and effort to focus on higher value services and competitive differentiation.

