Data Protection with Cisco HyperFlex Systems

In today's competitive economy, you need your applications to run even when you experience system failures. That's why companies are turning to Cisco HyperFlex™ Systems and the Cisco HyperFlex HX Data Platform. This innovative solution identifies and proactively remediates hardware failures and alerts your IT administrators so that problems can be resolved quickly and your business can continue to operate. With Cisco HyperFlex Systems, you can deploy hyperconverged infrastructure, integrate your best practices, and extend your preferred data protection approach to your applications and data.

High Availability

A foundational component of Cisco HyperFlex Systems, the HX Data Platform is a purpose-built, high-performance distributed file system. It provides clusterwide parallel data distribution that implements data replication for high availability, and it delivers high performance through the low latency and high bandwidth of the Cisco Unified Computing System™ (Cisco UCS®) network fabric. With this distributed storage technology, your data is striped and mirrored across all nodes and many disks, enabling the system to continue to operate in the event of a node or disk failure (Figure 1).

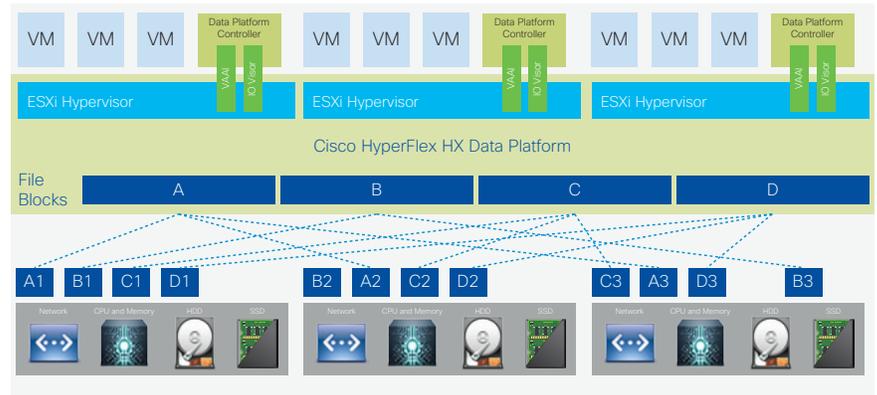## Integrated Data Protection

The HX Data Platform uses metadata-based, zero-copy snapshots to facilitate local backup operations. These space-efficient snapshots can be controlled through VMware vSphere Snapshot Manager using the native vSphere interface.

The data platform also supports replication of virtual machines or groups of virtual machines to other clusters across a WAN for disaster recovery purposes. The data platform optimizes data transfer using change-block tracking and compression to reduce network impact.

With native replication and snapshots built into the HX Data Platform, you can dramatically reduce your recovery time objective (RTO) and recovery point objective (RPO) metrics and achieve an RTO of less than 15 minutes for your applications and data.

Extensive Partner Ecosystem

Cisco partners with leading vendors, such as VMware, Veeam, Commvault, and Zerto, to provide innovative data-protection solutions. Through our API, partners can use the native snapshot and replication

Cisco HyperFlex™ Systems with Intel® Xeon® Processors

Benefits

- **Business Continuity.** Deploy Cisco HyperFlex™ Systems and help ensure that your systems, applications, and data remain available so that your business can continue to operate.

- **Easy and Safe Backups.** Make frequent backups of important data without worrying about your use of physical storage capacity.

- **Flexibility and Choice.** Use familiar data protection software solutions and extend their benefits to your hyperconverged systems.

Figure 1 Cisco HyperFlex Systems Provide Data Availability Using the Cisco HyperFlex HX Data Platform

capabilities to make data protection fast and simple.

VMware

Cisco HyperFlex Systems integrate with VMware vSphere and can be managed through VMware vCenter, giving you access to VMware Data Protection and vSphere Replication to protect and replicate data across sites. And you can use vCenter Site Recovery Manager to test and automate disaster-recovery plans for your hyperconverged deployment, helping ensure reliable recovery processes across data centers in the event of a site failure.

Veeam

Veeam Availability Software integrates with Cisco HyperFlex Systems, using our API to deliver data availability, protection, and disaster recovery for virtualized environments.

Commvault

Commvault provides a data management solution for your Cisco HyperFlex Systems with application-aware data protection, virtual machine and cloud management, compliance enforcement, data retention management, and search and disaster-recovery capabilities.

Zerto

Zerto Virtual Replication provides resiliency, data-protection, and disaster-recovery capabilities so that your applications remain available to users.

Next Steps

Call your Cisco® sales representative or authorized partner to find out how Cisco HyperFlex Systems can help you protect your most valuable assets: your business data.

For More Information

For more information about Cisco HyperFlex Systems with Intel Xeon processors, visit http://www.cisco.com/go/hyperflex.