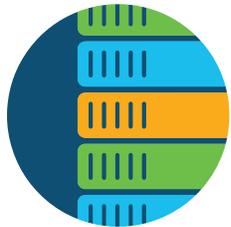# Data Protection with Cisco HyperFlex Systems

Zero downtime

Fast recovery

Broad ecosystem

Easy

Smart protection of your applications and data

In today's competitive economy, you need your applications to run even across system failures. This is one reason why companies are turning to Cisco HyperFlex™ Systems and the Cisco HyperFlex HX Data Platform. This innovative solution identifies and proactively remediates hardware failures. It alerts your IT administrators so that problems can be resolved quickly and your business can continue to operate.

Zero downtime

The HX Data Platform is a purpose-built, high-performance distributed file system that is a foundational component of Cisco HyperFlex Systems. With this distributed storage technology, your data is striped and mirrored across all nodes and many disks, enabling a cluster to continue to operate in the event of a node, disk, or even a site failure. Our approach lets you choose the protection strategy that best supports the recovery point objective (RPO) and recovery time objective (RTO) appropriate for your data.

The tools we deliver include synchronous replication in stretch clusters, asynchronous replication for disaster recovery, and data protection through industry-leading backup software providers (see Figure 1 on next page).

Cisco HyperFlex Systems with Intel® Xeon® Scalable processors

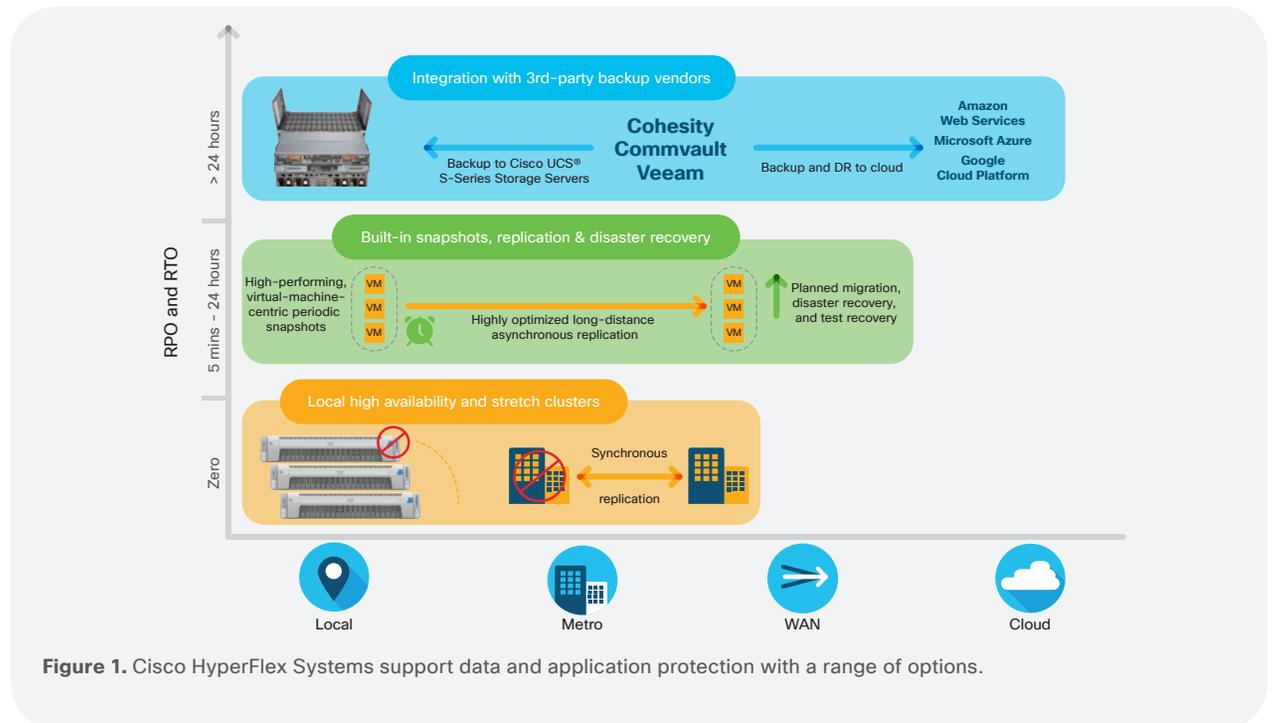intel® XEON PLATINUM inside™

Cisco HyperFlex Systems

- **Business continuity:** Applications, data, and systems remain available so that your business can thrive

- **Wide range of RPO and RTO:** Choose the protection level that your data needs

- **Easy:** Make frequent backups of important data without worrying about your use of physical storage capacity

Stretch clusters

Provide zero RPO and near-zero RTO high-availability for business-critical applications hosted on Cisco HyperFlex systems. Stretch clusters allow a single cluster to operate in two locations simultaneously. Synchronous replication ensures that data is written to each location so that each half of the cluster is kept up to date. In the event of a failure, the surviving cluster continues to operate without interruption. This enables zero downtime and zero data loss.

One-click disaster recovery

Built-in one-click disaster recovery (DR) with Cisco HyperFlex Systems protects against potential business disruption that would follow an IT-related disaster. We enable you to take

Next steps

To deploy any application, in any cloud, and at any scale, contact your Cisco sales representative or authorized partner or visit cisco.com/go/hyperflex.

Figure 1. Cisco HyperFlex Systems support data and application protection with a range of options.

virtual-machine-centric, consistent snapshots and transmit them to your DR site using asynchronous scheduled replication to protect your data. And we provide on-click workflows to recover your virtual machines on the DR site. This is built into your system, so no other product is needed.

Third-party backup software integration

We have worked with the leading backup software vendors to test and validate Cisco Validated Designs for data backup. This makes it easy to deploy, create, and manage consistent,

point-in-time backups. You can backup and archive your data to cost-effective Cisco UCS S-Series Storage Servers or to cloud services consistently for assured compliance to business and regulatory protocols.

Broad ecosystem support

We integrate with an ecosystem of vendors to make your hyperconverged deployments easy. Vendors include Cohesity, Commvault data management solutions, Veeam Availability Suite, VMware, Microsoft, and Zerto.