



Cisco HyperFlex Systems

You need systems that can adapt to match the speed of your business. Cisco HyperFlex™ systems with Intel® Xeon® processors deliver complete hyperconvergence, combining computing, storage, and networking resources into a simplified, easy-to-use platform. Engineered on the Cisco Unified Computing System™ (Cisco UCS®), Cisco HyperFlex systems deliver the agility, scalability, and pay-as-you-grow economics of the cloud, but with the benefits of on-premises infrastructure.

The Solution

Our platform includes hybrid or all-flash configurations, an integrated network fabric, and powerful data optimization features that bring the full potential of hyperconvergence to a wide range of workloads and use cases. Our solution is faster to deploy, simpler to manage, and easier to scale than the current generation of systems. It is ready to provide you with a unified pool of infrastructure resources to power applications as your business needs dictate.



Cisco HyperFlex™ Systems with Intel® Xeon® Processors

Benefits

- **Agile.** Get an end-to-end solution that helps you move faster and achieve your digital transformation.
- **Efficient.** Always keep your data optimized and your infrastructure aligned with application requirements.
- **Adaptable.** Be ready for an expanding range of applications and operating models.

Complete End-to-End Solution

Designed with an end-to-end software-defined infrastructure approach, the platform eliminates the compromises found in other hyperconverged products. We combine software-defined computing using Cisco UCS® servers, software-defined storage using the powerful Cisco HyperFlex HX Data Platform software, and software-defined networking (SDN) using Cisco® unified fabric, which integrates smoothly with Cisco Application Centric Infrastructure (Cisco ACI™). With hybrid or all-flash configurations, Cisco HyperFlex systems deliver a preintegrated cluster that is up and running in an hour or less and that scales resources independently to closely match your application resource needs (Figure 1).

Engineered on the Cisco UCS Platform

Cisco UCS provides a single point of connectivity and hardware management that integrates Cisco HyperFlex HX-Series all-flash or hybrid nodes and a variety of Cisco UCS servers into a single unified cluster. We give you the flexibility to choose the rest of the CPU, flash memory, and disk storage resources you need to deliver an optimal infrastructure for your applications. Incremental scalability allows you to start small and scale up as your needs grow. You gain the cost savings and performance advantages of Cisco UCS with the flexibility to choose among the solutions offered by the broad Cisco UCS management partner ecosystem.

What's New

- **All-flash nodes** for even higher performance and lower latency
- **Independent scaling** with a wider choice of compute-only nodes so that you can balance processing power and storage capacity
- **Secure encrypted data at rest** to protect from security risks and threats
- **Native replication** that safeguards your virtual machines in local and remote sites for disaster recovery
- **Simplified and secure management** with the Cisco HyperFlex Connect interface
- **Acceleration** with support for 40-Gbps networking
- **Data protection ecosystem enhancement** with integration with leading enterprise backup systems
- **Integration** with third-party storage systems

For More Information

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

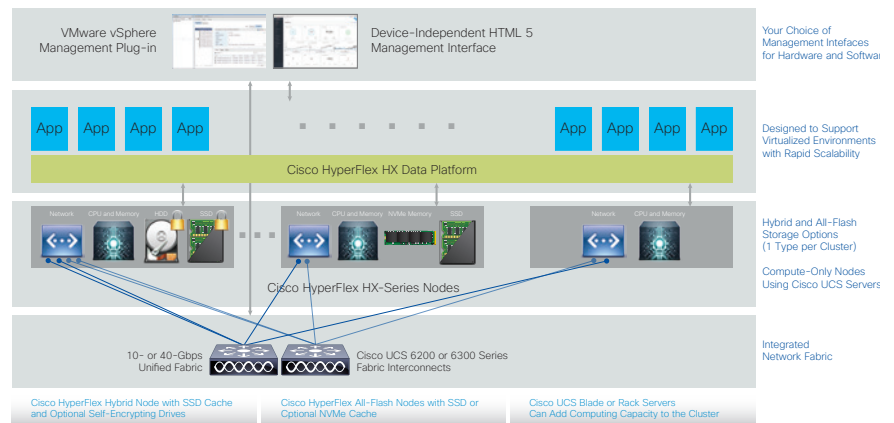


Figure 1 Cisco Delivers Hyperconvergence with Many Features

Powered by Next-Generation Data Technology

The HX Data Platform controller combines the cluster's solid-state disk (SSD) drives and hard-disk drives (HDDs) into a single distributed, multitier, object-based data store. Replication stripes and replicates data across the cluster so that data availability is not affected if single or multiple components fail (depending on the replication factor configured). Native replication transfers consistent cluster data to local or remote clusters for backup or disaster-recovery purposes.

Simplified System and Data Management

Our system integrates storage functions into existing management tools, allowing instant provisioning and cloning for dramatically simplified daily operations. It also improves your control with advanced automation and orchestration capabilities and robust reporting and analytics features that deliver improved visibility and insight into IT operations. You can manage the system through any device using a new role-based Cisco HyperFlex Connect interface, the VMware vSphere plug-in, or the familiar Cisco UCS management tools that you use to manage your existing Cisco UCS environments.

Enterprise Data Protection

The HX Data Platform uses a self-healing architecture that implements data replication for high availability, remediates hardware failures, and alerts your IT administrators so that problems can be resolved quickly and your business can continue to operate. Space-efficient, pointer-based snapshots facilitate backup operations, and native replication supports cross-site protection. Data-at-rest encryption protects data from security risks and threats. Integration with leading enterprise backup systems allows you to extend your preferred data protection tools to your hyperconverged environment.

Next Steps

Call your Cisco sales representative or authorized partner to find out how Cisco HyperFlex systems can enable your digital transformation.