

# Protect Your Data with Cisco UCS X-Series and Cohesity

Boost ransomware protection and cyber resiliency capabilities to keep your business going

Today's digitally transformed world is driven by the creativity, speed, and agility of applications and information. Keeping it all safe and accessible is hard to do in the face of exploding data volumes, cyberattacks, and compliance mandates. Cisco UCS® X-Series Modular

Systems equipped with all-flash storage and [Cohesity DataProtect](#) provides a flexible, hyperscale, software-defined backup and recovery solution that simplifies and modernizes data protection to thwart data loss.

## Unbox your data

Moving beyond the limits of traditional platforms, Cisco UCS X-Series Modular Systems provides functionalities of both blade and rack servers by offering compute density, storage capacity, and expandability in a single system, embracing a wide range of workloads in your data center making it a great way to unleash the power of Cohesity DataProtect. You can tap into industry-leading data protection and predictable recovery with modern cloud-managed infrastructure that frees you from yesterday's constraints by future-proofing your data.

## The benefits are many

### Lower TCO

- The Cisco UCS X-Series Modular System offers an operating model at scale—you can start with the resources you need today and scale by adding more nodes in the same chassis or provisioning more chassis under the same fabric domain.
- Reduce upgrade costs with the Cisco UCS X-Series chassis' future-ready I/O midplane-less design, which enables you to easily upgrade to the latest fabric innovation, from 25G to 100G network connectivity in the same chassis without a forklift upgrade.
- Boost sustainability with local backup hardware infrastructure with significantly less cabling and lower power requirements.

### Simplify management

- Benefit from the Cisco Intersight™ cloud-operations platform, which provides a single management platform for the Cisco X-Series Modular System, giving you instant access to your clusters and servers regardless of location.
- Accelerate deployment of Cisco X-Series Modular Systems running Cohesity DataProtect through policy-based configurations delivered through Cisco Intersight.

- Take advantage of Cisco Intersight's support for full-stack upgrade to easily update the entire stack without any downtime for your clusters.

### Mitigate risk

- Reduce the operational complexity of separate silos of vendors and platforms by leveraging Cisco UCS X-Series Modular Systems as a single, end-to-end platform for running primary workloads as well as for backup and recovery.
- Optimize your environment with intelligent recommendations and paths to remediation delivered through Cisco Intersight's advisories and field notices.
- Trust an always-on connection to the Cisco Technical Assistance Center (Cisco TAC), which constantly monitors the environment to help identify configuration issues before they become problems.
- Back up and protect data in a uniform and standardized way with automation supported by Red Hat Ansible and HashiCorp Terraform that simplifies processes and workflows.
- Secure your enterprise data from bad actors with Cohesity DataProtect's immutable backup snapshots, WORM, data encryption, multi-factor authentication, and granular role-based access controls.

## Innovative approach

No two environments are alike or have the same backup requirements. With Cisco UCS X-Series Modular Systems and Cohesity DataProtect, you can choose from a range of flexible deployment options to fit your unique needs.

For example, you can run your mission-critical and primary workloads on:

- [Cisco HyperFlex®](#) systems
- Converged infrastructure solutions based on Cisco UCS, including [FlexPod](#), [FlashStack](#), [Hitachi Adaptive Solutions for Converged Infrastructure](#), and [IBM VersaStack](#).
- Cisco UCS X-Series Modular Systems or other Cisco UCS and third-party servers.

These workloads can then be protected by Cohesity DataProtect deployed on Cisco UCS X-Series nodes, which provide both compute and all-flash storage for exceptional backup performance and instant recovery critical during any outages and data-loss incidents such as malicious ransomware attacks.

You can also standardize on a single platform with Cisco UCS X-Series Modular System to eliminate management burden, as Cohesity DataProtect deployed on Cisco UCS X-Series nodes can run alongside primary workloads deployed on Cisco UCS X-Series nodes within the same chassis.

Moreover, as hybrid-cloud architectures become the norm, organizations are looking to secure their primary, remote, edge, or public cloud virtual-infrastructure environment with a combination of on-premises and public cloud dataprotection services. [The hybrid-cloud disaster recovery solution with Cisco UCS X-Series Modular System and the Cohesity Data Cloud, a unified platform for data security and management](#), gives organizations flexible options for recovery from cloud archives and failover and fallback targets that meet their application recovery Service-Level Agreements (SLAs) and budgets.

## Designed to protect and recover

As cyberattacks continue evolve and ransomware attackers target organizations, the ability to effectively defend against threats and recover from a data breach has become critical. While Cohesity DataProtect offers best-in-class security features such as AI-powered ransomware and anomaly detection, and user behavior analytics, another key aspect of cyber resiliency is how quickly organizations can

recover from these attacks. HDD or spinning disk-based systems are good for backup throughout, but they lack the performance required to rapidly restore from backups. Cisco UCS X-Series Modular Systems and Cohesity DataProtect enable you to rapidly recover primary data with instant restore capabilities and low-latency, all-flash storage.

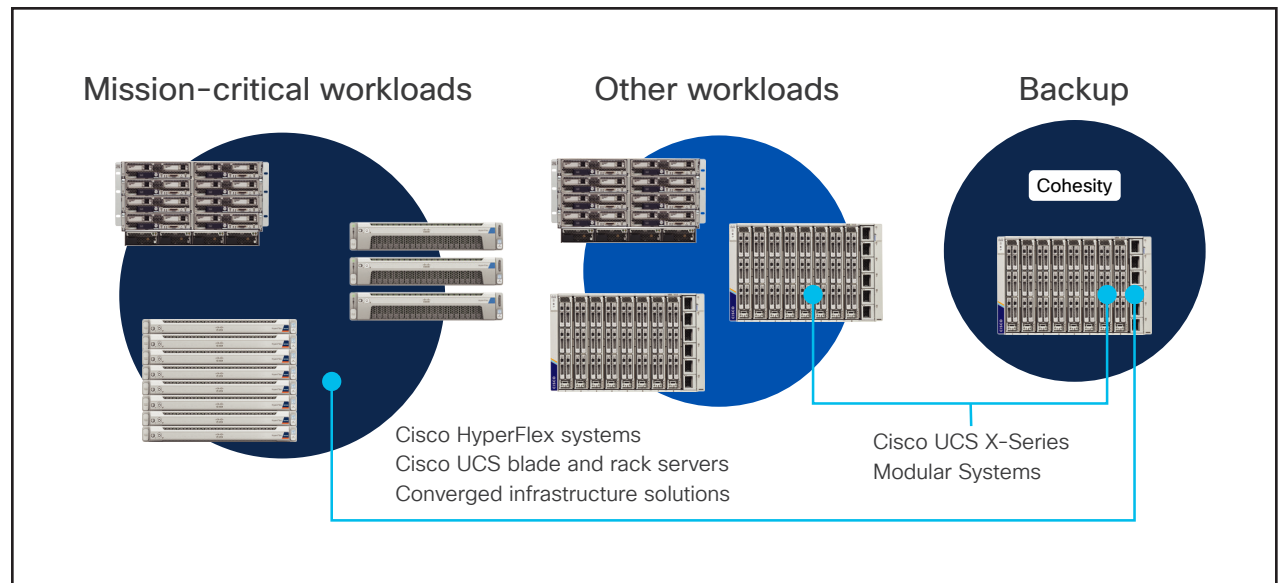


Figure 1. Cisco UCS X-Series as part of the Cohesity ecosystem



## Learn more

If you're ready to modernize your backup capabilities and deliver tomorrow today, visit [Cisco UCS X-Series Modular Systems](#) and [Cohesity DataProtect](#) to learn more about these solutions and the [Cisco and Cohesity](#) partnership.

The Cisco UCS X-Series Modular System with Cohesity DataProtect solution supports agent-based backup for mission-critical applications such as Epic, SQL, etc. Since the primary workload, backup agent, and backup Cohesity cluster can be deployed on the same Cisco UCS X-Series chassis, you can achieve a significant reduction in network latencies and faster backup and recovery. [The Epic Operational Database](#)

[\(ODB\) Data Protection with Cohesity on the Cisco UCS X-Series Modular System white paper](#) documents the outcome of a Proof-of-Concept (PoC) implementation undertaken for a healthcare customer using Cohesity Data Cloud on the Cisco UCS X-Series Modular System. The PoC demonstrated how the solution can perform backup and recovery of patient data in record-breaking time.