

# Platform Modernization for Applications Part II

LEADING DIGITAL BUSINESS  
TRANSFORMATION SERIES:  
MODULE 3



# DRIVING DIGITAL TRANSFORMATION

Businesses need to be more adaptable and innovative than ever. But in a multi-cloud world, digital transformation brings challenges.

Time for a new approach.

Modern IT teams are now expected to:

- Deploy applications across multiple data center, private and public cloud environments
- Deliver new capabilities, while managing legacy systems, without adding complexity
- Respond to demands for a new architecture with secure connectivity, accelerated computing, multi-cloud orchestration and operational analytics

A simple, unified approach is needed. Cisco is uniquely placed to help create it.

## HYPERCONVERGED INFRASTRUCTURES

A hyperconverged infrastructure delivers agility with simplicity, speed and scale. It is managed easily by generalist IT teams and delivers:

- 75% time savings in infrastructure management
- 90% reduction in downtime
- 80% savings over traditional three-tier infrastructures

## CISCO HYPERFLEX

HyperFlex provides the performance and scalability to power any app, in any cloud, anywhere.



Each HyperFlex node ships straight from the factory with fully integrated hardware,

software and networking. Easy to deploy, it delivers the power to:

- Connect nodes into a single unified cluster
- Automatically integrate any new components as they're attached
- Combine cluster storage devices into a single distributed, multi-tier data store

- Support countless hypervisors and containerized apps
- Exploit built-in enterprise cloud data management features, such as snapshots enabling replication for disaster recovery, data encryption, in-line storage optimization and integration with third party back-up tools.

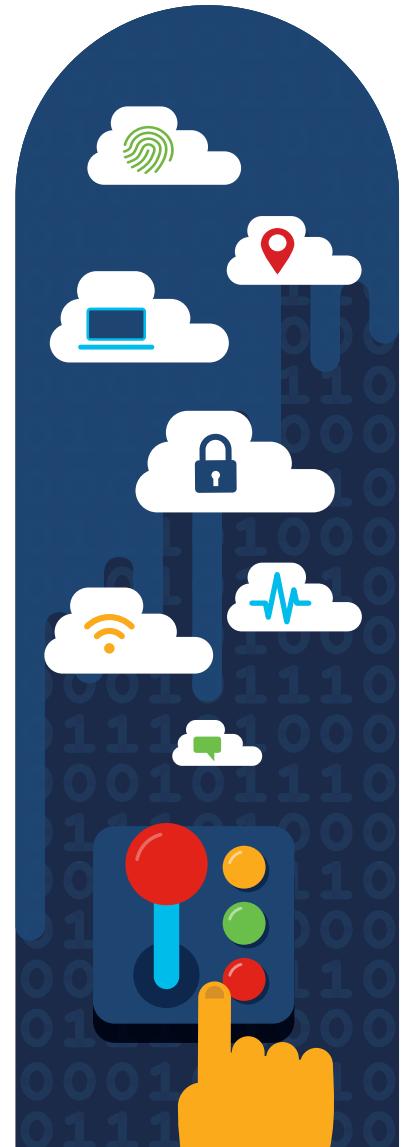
## INFRASTRUCTURE THAT GROWS WITH YOU

With HyperFlex you can start small and then scale up. If an app demands more storage, simply add more drives to the nodes. And you're free to deploy clusters in the data center, at the edge, or over private and public clouds.

## ENTERPRISE APPLICATION READY

All enterprise apps supported by HyperFlex are fully validated using industry standard benchmarks. Independent tests reveal that it consistently outperforms its main competitors, delivering:

- 96% higher VM level performance consistency
- x 3 lower latency
- x 3 IOPS delivery





## FEATURES THAT MAKE A DIFFERENCE

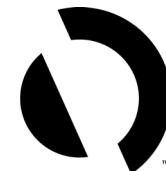
- Full certification for SAP HANA for production-based environments
- Allows enterprise apps to run alongside SQL and Oracle databases
- Support for Kubernetes turnkey solutions – plus the analytics and monitoring tools developers need as they deploy and manage Kubernetes clusters
- Container Storage Initiative (CSI) plug-in lets developers make a single API call requesting persistent storage
- Automatic deployment of HyperFlex clusters at the edge via Cisco Intersight
- Manage the whole HyperFlex capability lifecycle – automating upgrades of software defined storage layer, server firmware or hypervisor
- Easily connect existing infrastructure and storage platforms for consolidation and migration
- Natively replicate virtual machine workloads from one HyperFlex cluster to another
- Deploy clusters across two sites running synchronous replication for workloads with zero tolerance of failure

## NEXT GENERATION MANAGEMENT

- A series of Cisco products ensures hybrid cloud mobility and intelligent workload placement.
- Cisco Intersight delivers centralised cloud-based management and AI-driven analytics
- Cisco Workload Optimization Manager (CWOM) automatically calculates app resource needs



- Cisco CloudCenter makes intelligent choices about where an app is best deployed



- Cisco AppDynamics detects if an app isn't performing correctly and analyses why

## HOW CISCO SUPPORTS YOU

Cisco has the proven products, services, expertise and insights to help you create the open, fully automated, API and data-driven framework needed to effectively manage modern apps.

It's a crucial step towards the platform modernization and digital transformation that can help businesses stay ahead of the curve and thrive in an increasingly competitive environment.

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