

Full Stack Optimization for the Multicloud Data Center

with Cisco Workload Optimization Manager

Cloud elasticity on-premises

Safely maximize cloud elasticity in **Cisco HyperFlex™** and **Cisco UCS®** environments.

- **Dynamically optimize on-premises infrastructure** with continuous autoscaling and placement that accounts for compute and storage.
- **Ensure performance of new and existing workloads** with intelligent initial placement that's executed in real time.
- **Ensure that workloads always get exactly what they need:** Workload Optimization Manager intelligently scales Cisco HyperFlex compute and storage independently, based on real-time workload consumption.

Super cluster optimization

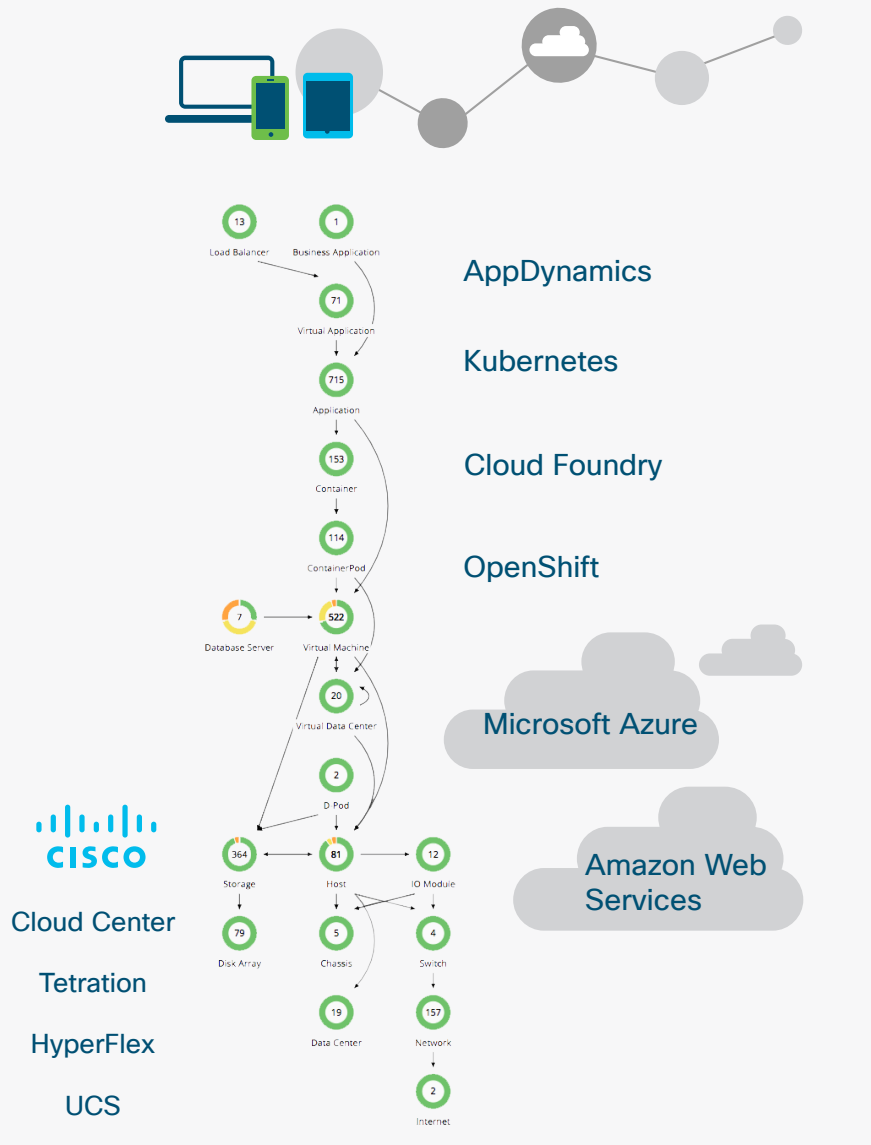
Flatten **Cisco HyperFlex** infrastructure for better performance and efficiency.

- **Quickly and easily create super clusters** with what-if modeling and policies.
- **Ensure performance while maximizing efficiency**, with continuous cross-cluster migration of workloads.

Turn data into action— Does your data center have a brain?

Cisco Workload Optimization Manager has deep integrations with Cisco's multicloud portfolio as well as with ecosystem partner solutions. It leverages the data that is already being gathered by these solutions to understand the performance and interdependencies of your applications and infrastructure holistically, in order to determine the right actions, at the right time, to continuously optimize your data center and cloud environments.

Full-Stack and Heterogeneous



Network awareness

Confidently replatform to application architectures that have increased network complexity when Workload Optimization Manager leverages Cisco Tetration™ network data.

- **Minimize network latency** in distributed micro-service applications with real-time localization of “chatty” workloads.
- **Holistically manage compute, storage, and network** resource needs simultaneously.

Cloud deployment, migration, and optimization

Accelerate multicloud projects for greater agility, elasticity, and resiliency. Workload Optimization Manager manages resources across the data center and public cloud (AWS and Azure) from one platform.

- **Intelligently deploy new workloads anywhere, anytime**, with Cisco CloudCenter™. Workload Optimization Manager optimizes initial placement for performance, cost, and compliance.
- **Cut cloud costs by 30 percent from Day 1** with consumption-based migration planning that ensures workloads get exactly what they need to perform.
- **Continuously optimize for performance, cost, and compliance** with real-time scaling of cloud-compute instances and attached storage.
- **Get the most out of Reserved Instances (RIs)** when these prepurchase investments are intelligently utilized in real time.

Continuous compliance

Get intelligent automation that continuously abides by IT and business policies.

- **Real-time actions account for constraints**, including licensing, data sovereignty, governance and enforcement, high availability, affinity, and anti-affinity rules.

Cisco Workload Optimization Manager drives continuous health in dynamic data center environments, whether on-premises or in a public cloud. It provides automatable recommendations that adjust infrastructure resources at every layer of the stack to ensure the performance of your applications. When your infrastructure is continuously performant, your teams can focus on what matters to your business.

Learn more at <https://cs.co/workloadoptimization>

Application awareness

Drive better optimization through the infrastructure with AppDynamics® metrics.

- **Continuously ensure application performance** and eliminate application performance risk due to infrastructure.
- **Show IT's value to the business** when infrastructure-resource decisions are directly tied to the performance of business critical applications.
- **Bridge the application-infrastructure gap** with full-stack control that elevates teams and provides a common understanding of application dependencies.
- **Accelerate and de-risk application migration** with our holistic understanding of application topology, resource utilization, and the data center stack.

Self-managing container platforms

Accelerate cloud native projects for production-scale **Kubernetes, Red Hat OpenShift, and Cloud Foundry**.

- **Minimize human intervention**—no thresholds to set!
- **Ensure performance with pod rescheduling**, mitigating contention due to “noisy neighbors,” resource starvation, and fragmentation.
- **Safely maximize elasticity with intelligent cluster scaling** that accounts for storage and compute.
- **Unite DevOps and infrastructure** with full-stack control.