

Cisco Connect

Next-Generation Hyperconverged Infrastructure Support for Any Application on Any Cloud At Any Scale

Ong Poh Seng, CISSP, VCP5, ITILv4, TOGAF9 Datacenter Compute Solutions , Cisco Systems

App is the new business Developer is the new Customer Multicloud is the new Data Center

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Cisco HyperFlex - The Stepping Stone to :





CISCO HX DATA PLATFORM



Log-Structured File System, Built from Scratch for HCI Dynamic Data Distribution Independent Resource Scaling Advanced Data Services and Protection

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CISCO UCS PLATFORM



Converged and Unified Fabric

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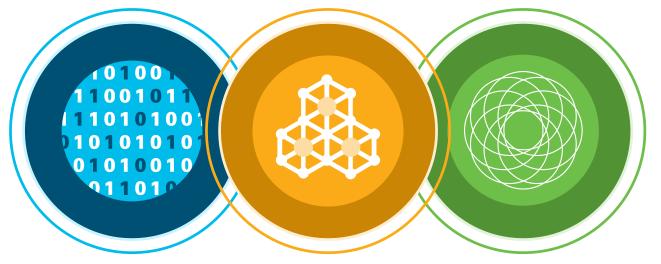
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Low Latency, High Bandwidth Fabric Centralized Policy Management Optimized for Virtualization

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HYPERFLEX DYNAMIC DATA FABRIC





Cisco UCS Network Fabric

Consistent Performance Across All Nodes Dynamic Data Distribution for Sustained Low-Latency Pre-Engineered Traffic Segmentation and Policies Guaranteed QoS

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Cisco Hyperflex – Engineered on UCS

Engineered on Cisco UCS

The Ideal System for Hyperconvergence

Integrated, High Performance Network Fabric Programmable Automation of all Hardware

Complete Hyperconvergence

Unified Compute and Network Infrastructure







(eon® Scalable

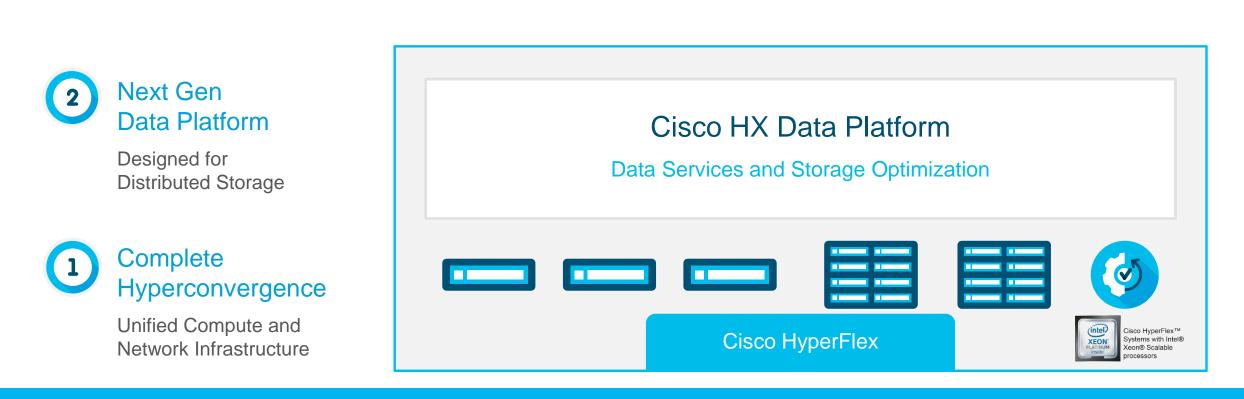
Wide Array of Rack and Blade Form Factors



Cisco Hyperflex – Engineered on UCS

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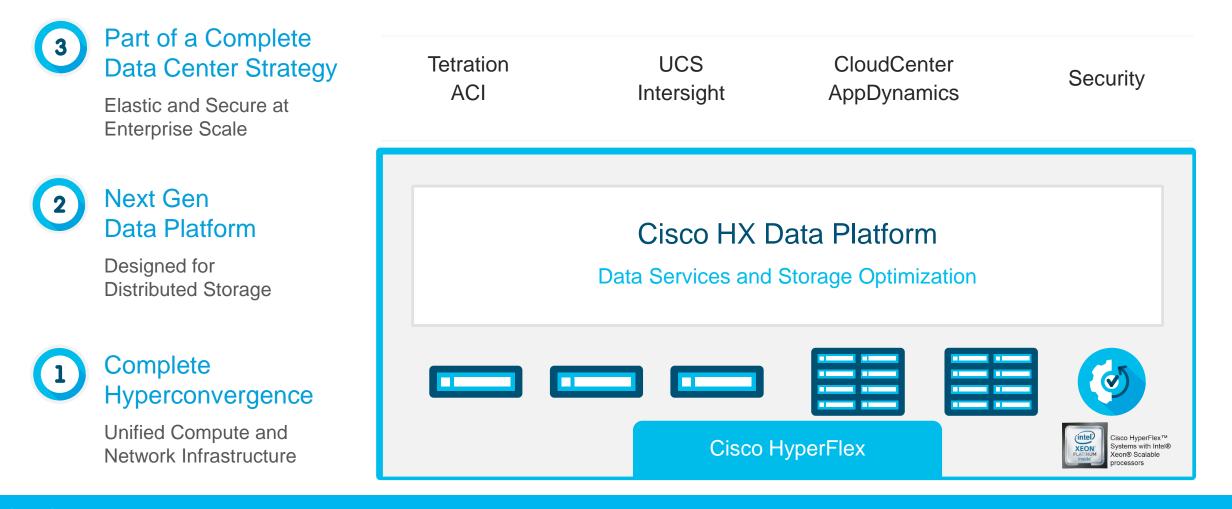
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Cisco Hyperflex – Engineered on UCS

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HyperFlex Delivers Real Business Benefits

Independent Scaling and Scale Out Architecture

Enterprise Storage Features



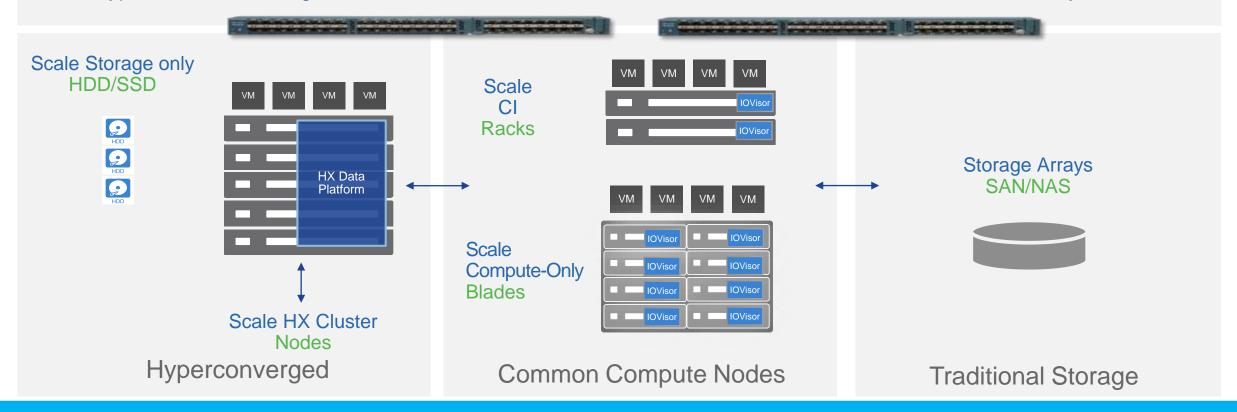


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Industry's Only Adaptive Infrastructure

Unified UCSM Management for both HyperFlex and Existing SAN Compute Nodes can be Shared Across HCI and CI Applications

UCS Director and Cloud Center for Orchestration and Hybrid Cloud



Common Management Framework and Network Fabric

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HyperFlex Native Data Protection and Security

Protect against Site Failure

Native Replication of Snapshots across Sites

Disaster Recovery Protection

Data-At-Rest Loss Prevention

Data-At-Rest Encryption thru Self-Encrypting Drives

Enterprise Key Management Support

Vormetric



Secure Platform

Vulnerability Assessments and Hardening

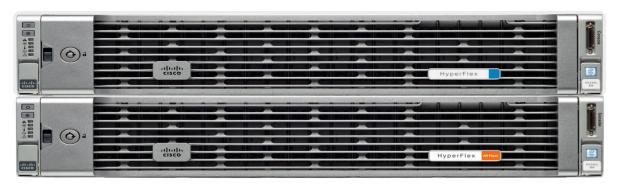
Role-based access control and Auditing

Regulatory Compliance

Certifications starting with FIPS, Common Criteria

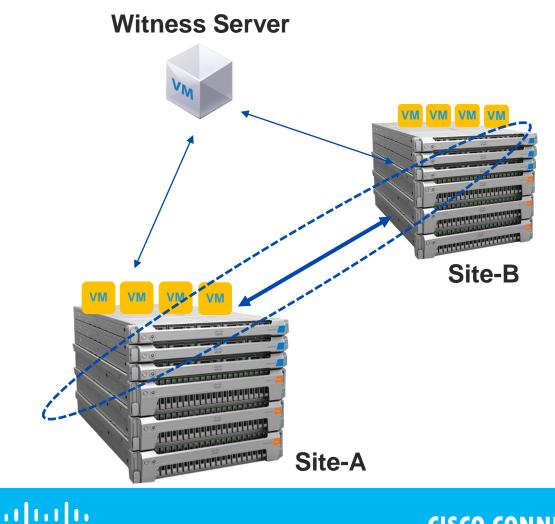
Compliance for Data Privacy (GDPR, HIPAA, PCI-DSS etc.)







Increased Availability - Stretched Cluster



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- Single stretched cluster across 2 sites
- Active Active

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- Non disruptive rolling upgrade
- Recover from local failure or site failure
- Witness server to handle split brain



Cisco HyperFlex™ Systems with Intel® Xeon® Scalable processors

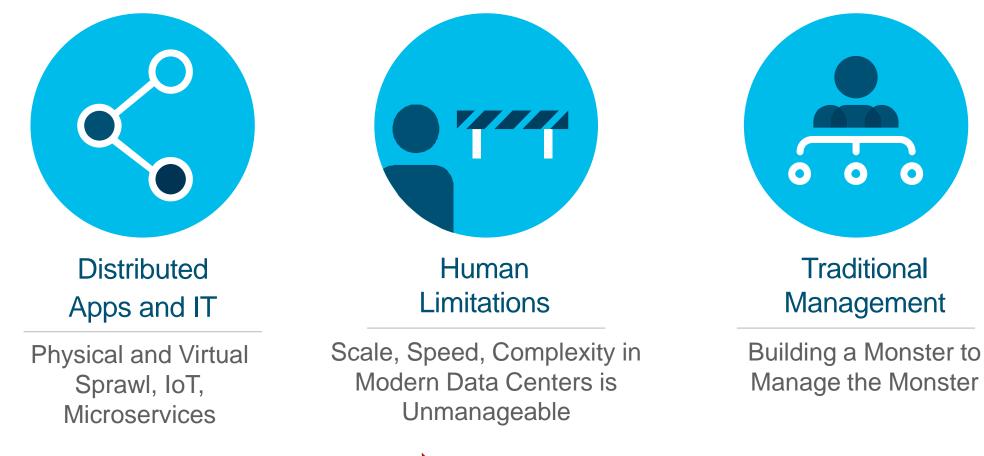


>2400+ New Hyperflex Customers



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Infrastructure Management Challenges



Automated

Automatic

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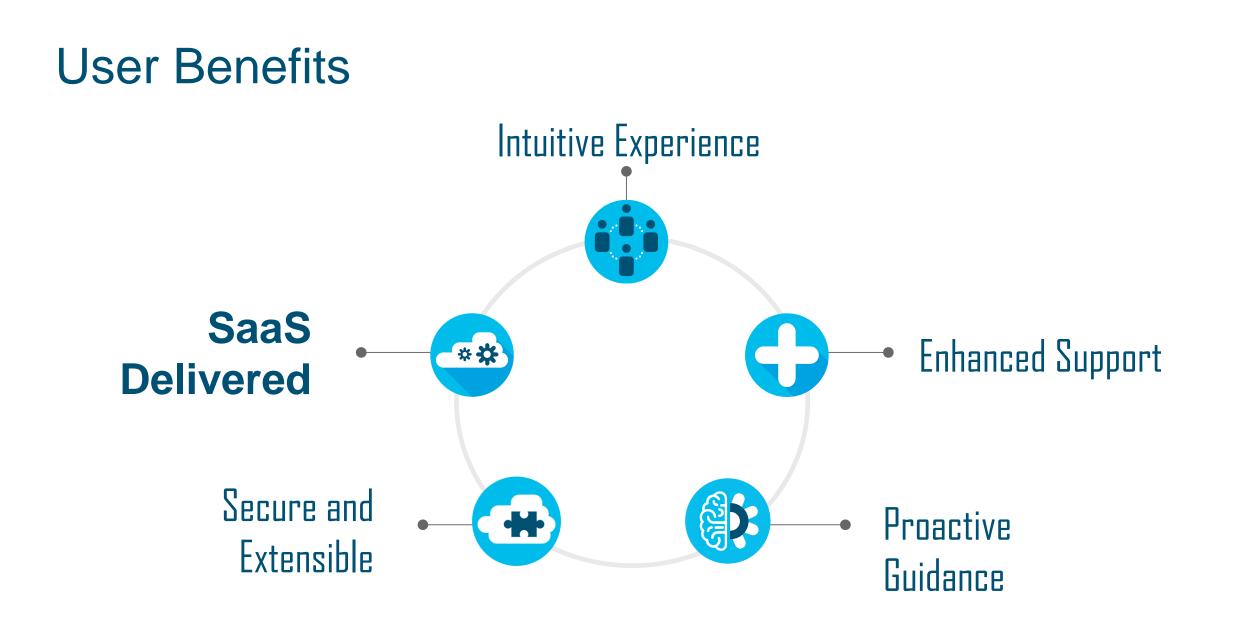


Cloud Based Management Global / Multi-site / Datacenter / Edge Real time analytics & Machine Learning

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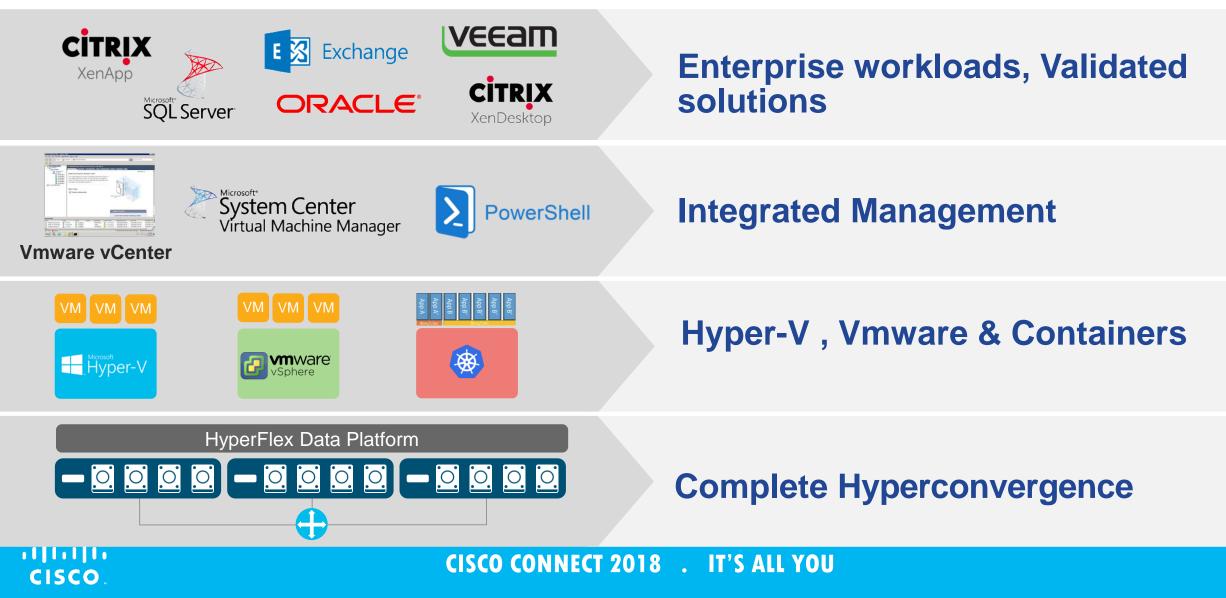
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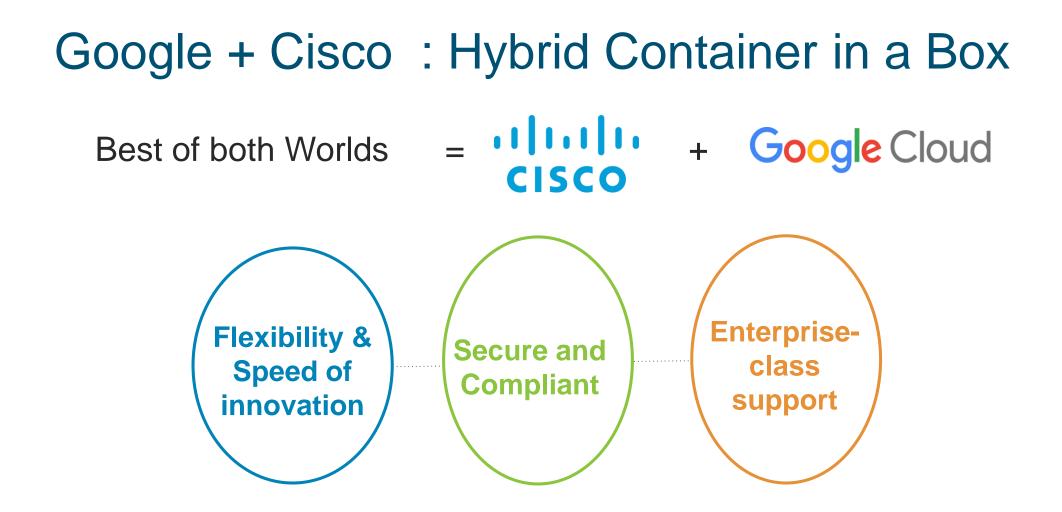
Continuous Integration Continuous Delivery Continuous Monitoring





Increased Choice of Workloads





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Optimize your cloud with Cisco and Google to achieve unprecedented business agility and investment protection



Cisco HyperFlex™ Systems with Intel® Xeon® Scalable processors

Summary - New IT Operation Models Require New Consumption Models





Moving at the Speed of Business

Consumption of Infrastructure Adds Time, Cost and Inefficiency

Operationalizing Speed and Simplicity

Proliferation of Solutions Creating Silos that Complicates Operations

CFOs Expect a Cloud Economics On-Premise

Expectation of Pay-as-you-go Economics with Scaling On-Demand

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