

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

>

>\_

C97-739634-00 © 2018 Cisco and/or its affiliates. All rights reserved.

8

## 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

## cisco.

#### CISCO UCS PLATFORM



Converged and Unified Fabric

......

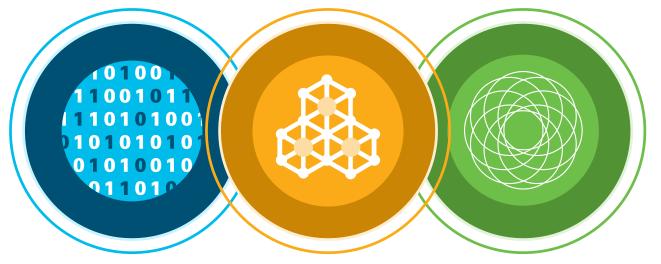
CISCO

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

#### (

## 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

## cisco.

## 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

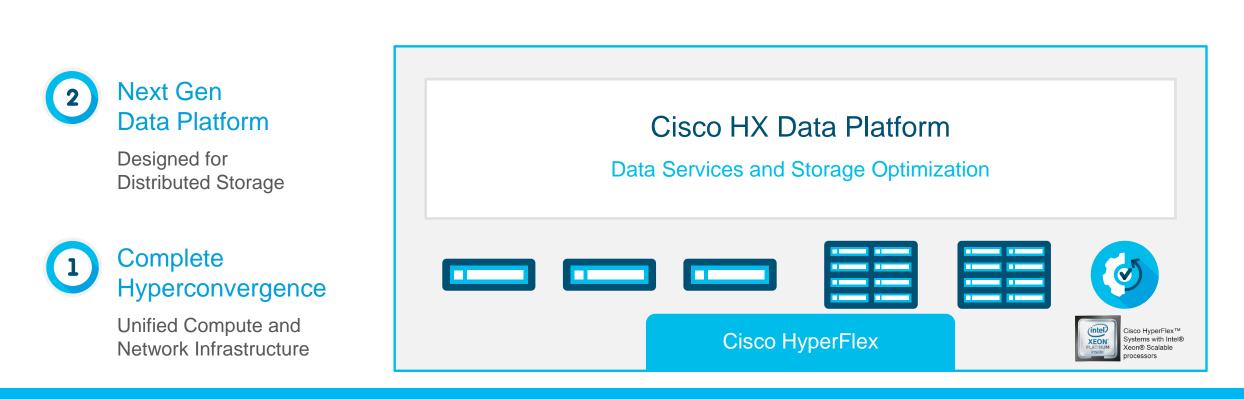
Wide Array of Rack and Blade Form Factors



## Cisco Hyperflex – Engineered on UCS

......

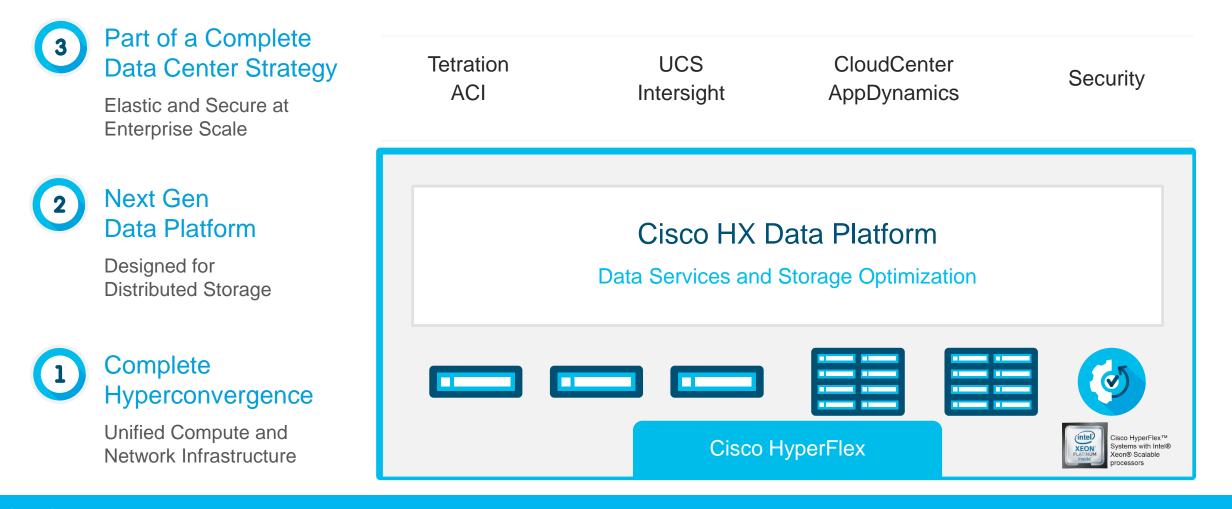
CISCO



## Cisco Hyperflex – Engineered on UCS

......

**CISCO** 



## HyperFlex Delivers Real Business Benefits

#### Independent Scaling and Scale Out Architecture

**Enterprise Storage Features** 



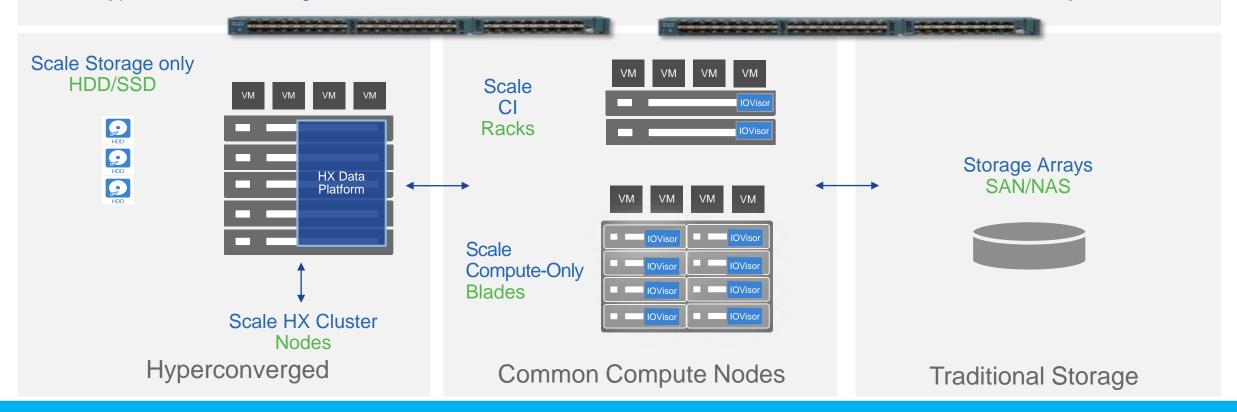


#### ıılıılı cısco

## 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** 

cisco.

## 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

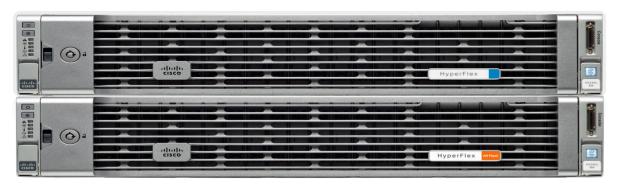
Role-based access control and Auditing

#### Regulatory Compliance

Certifications starting with FIPS, Common Criteria

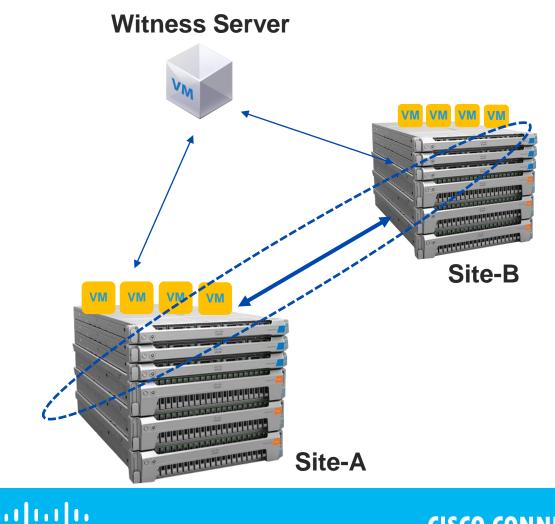
Compliance for Data Privacy (GDPR, HIPAA, PCI-DSS etc.)







## Increased Availability - Stretched Cluster



CISCO

- Single stretched cluster across 2 sites
- Active Active

CISCO CONNECT 2018 . IT'S ALL YOU

- 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

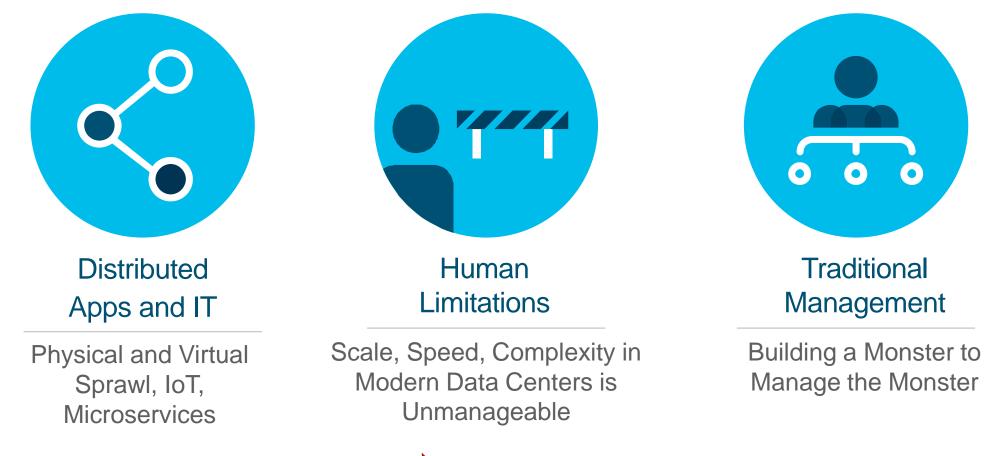


## >2400+ New Hyperflex Customers



© 2018 Cisco and/or its affiliates. All rights reserved

## Infrastructure Management Challenges



Automated

Automatic

## cisco.

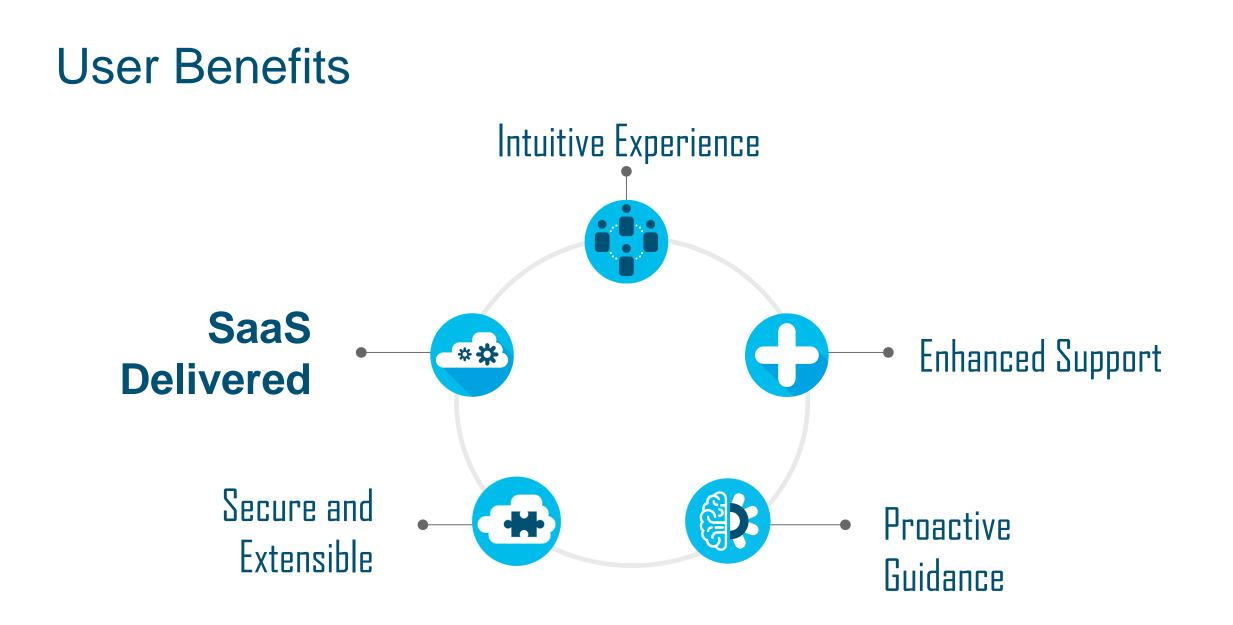


Cloud Based Management Global / Multi-site / Datacenter / Edge Real time analytics & Machine Learning

11 11 11

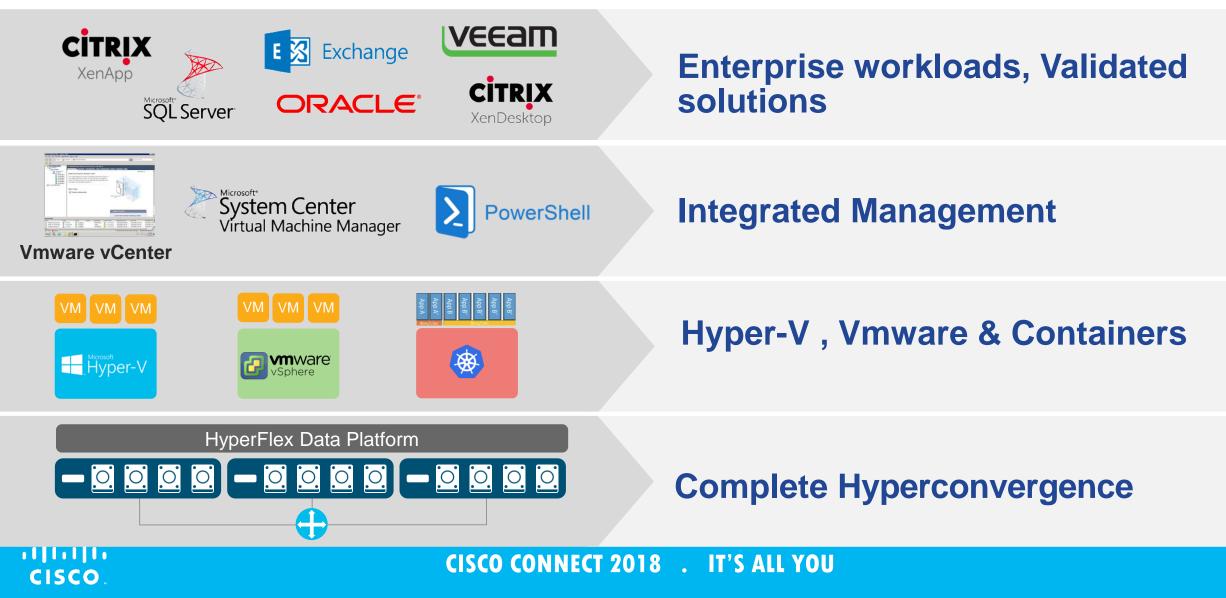
CISCO

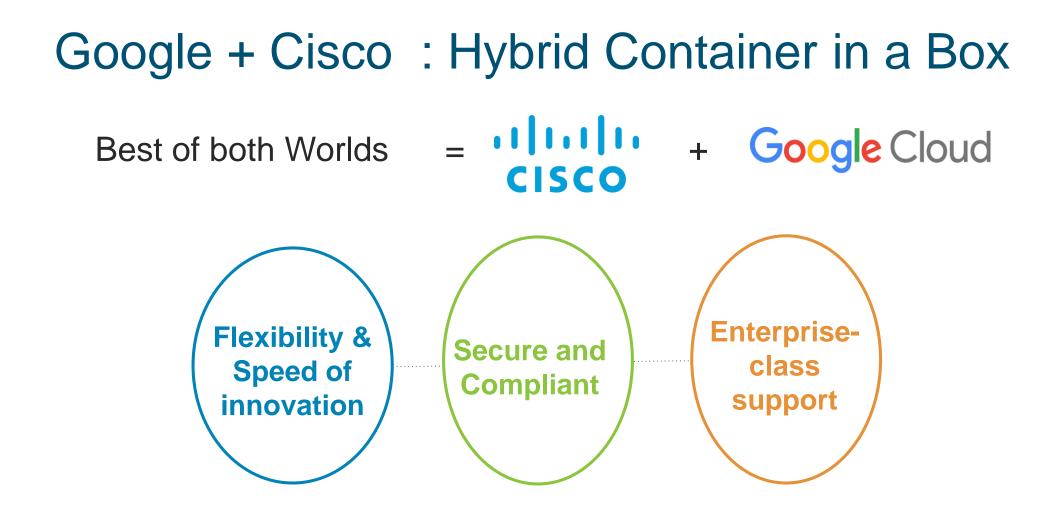
Continuous Integration Continuous Delivery Continuous Monitoring





## **Increased Choice of Workloads**





......

CISCO

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

#### uluilu cisco

