



Cisco Hyperflex™
Systems with
Intel® Xeon®
Platinum processor

Modernize Your Server & Storage

Modernize the present, simplify the future

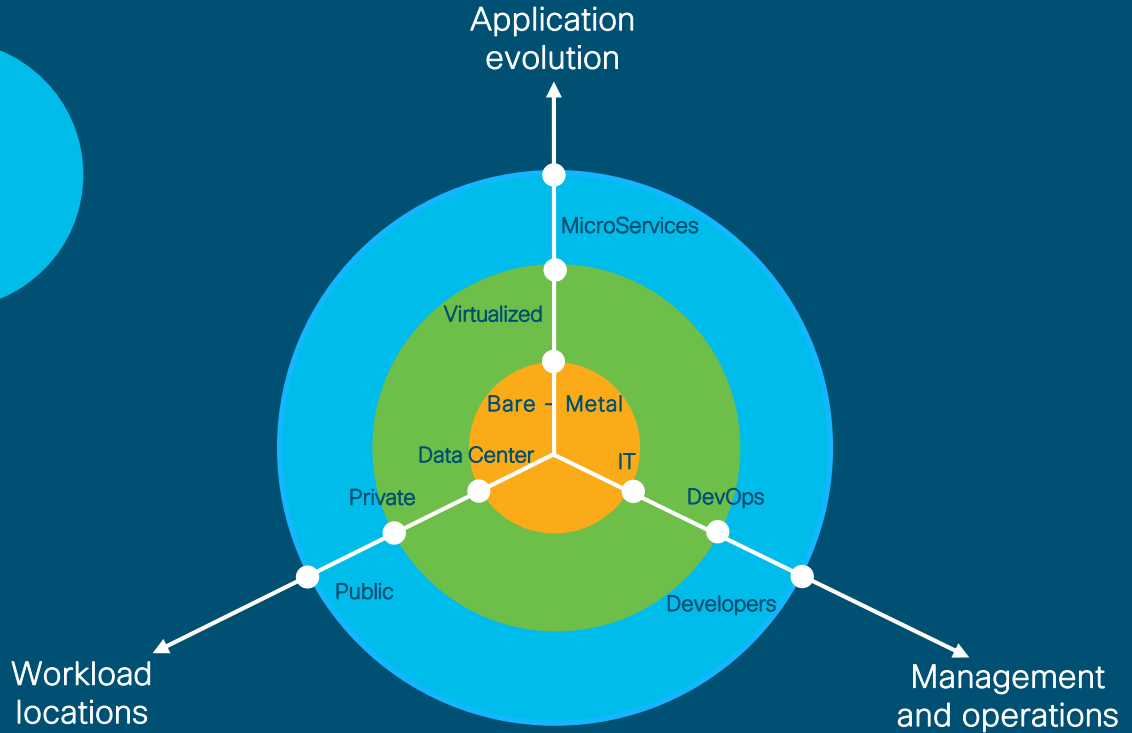
DataCenter Innovation Day

Anon Kongkreangkrai
DataCenter Systems Engineer, CISCO
November 15,2018

The perfect storm

“50% Fortune 500 companies are expected to no longer exist within 10 years”

- John Chambers

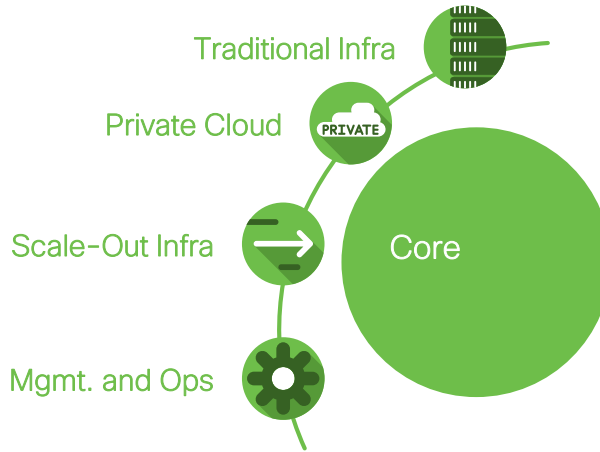


What does the future look like?

#1 Initiative Is to Reduce Operations and Capital in the Core

Over the Last Two Years, IT Organizations Spent **70%** on “Run the Business” IT Spending

04/18 Gartner,
Strategic roadmap for compute infrastructure



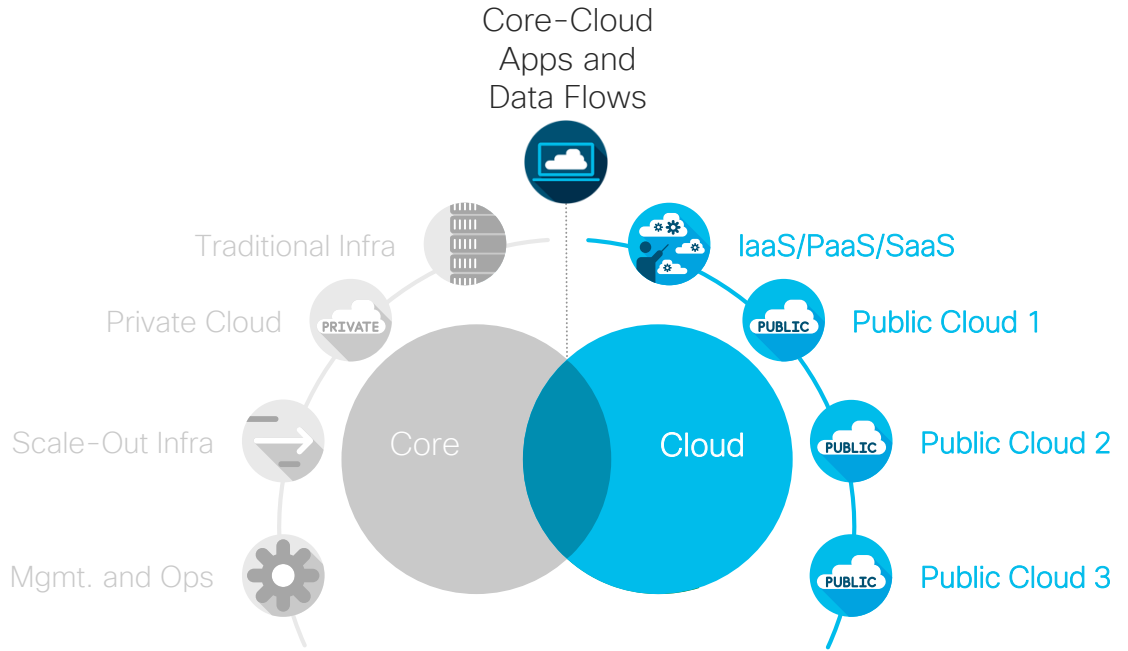
What does the future look like?

By 2020, More Than 50% of Enterprises Will Run Mission-Critical, Containerized Cloud-Native Applications

04/18 Gartner,
Strategic roadmap for compute infrastructure

By 2020, Over 90% of Enterprises Will Use Multiple Cloud Services and Platforms

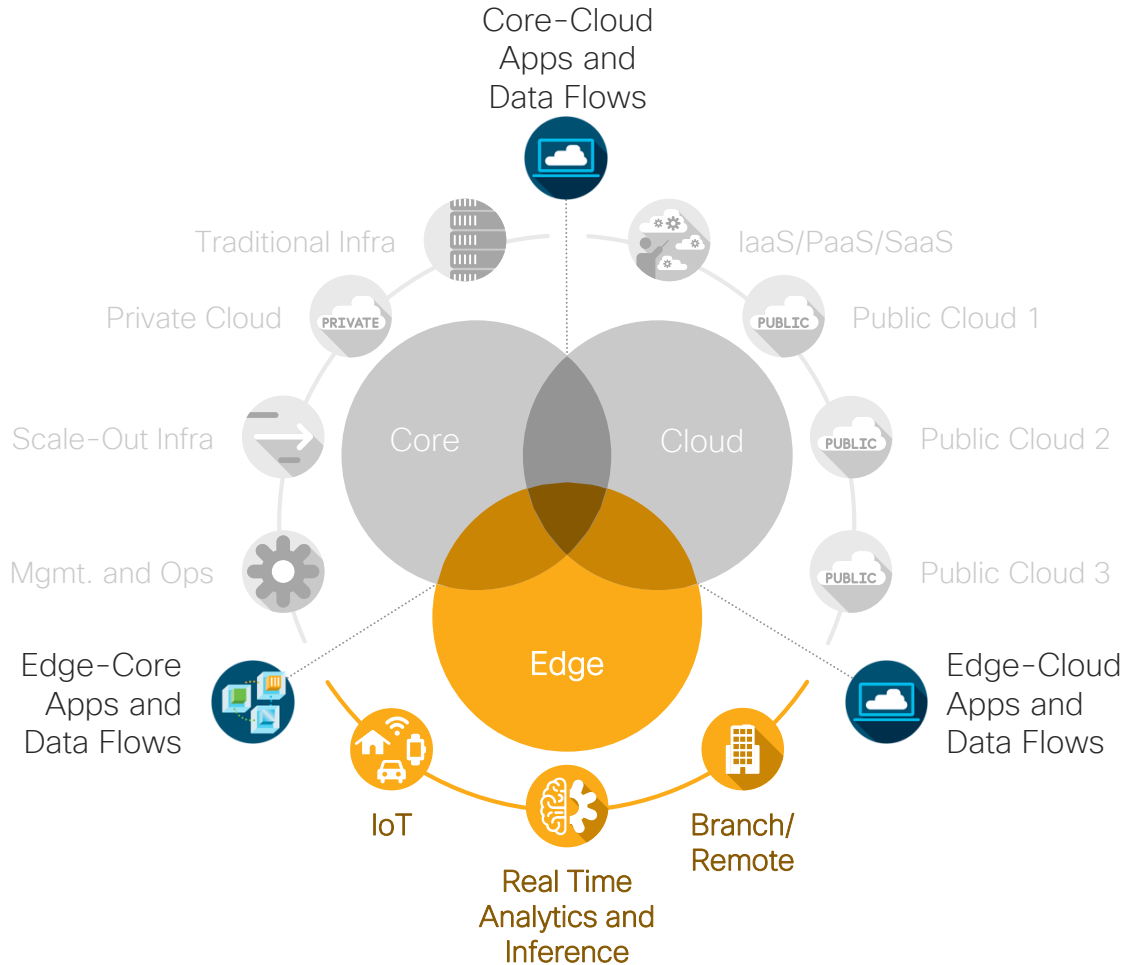
2018 IDC,
IDC FutureScape:
Worldwide IT Industry 2018 Predictions



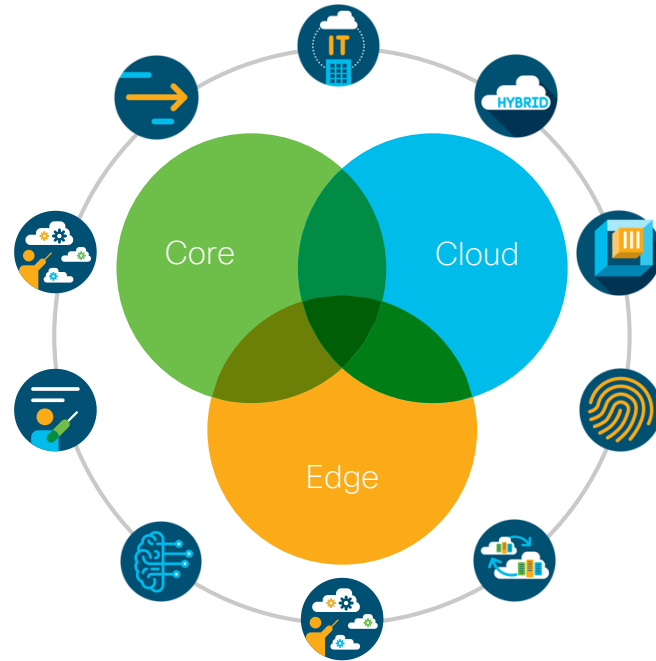
What does the future look like?

By 2021, 40% of Large Enterprises Will be Integrating Edge Computing Principles Into Their IT Projects

11/15/17 Gartner,
Predicts 2018: Servers



The Future
is the
Distributed
Datacenter





*Are you ready
for the future today?*

...or just keeping the lights on?

Datacenter Modernization

Your bridge to the Future

Traditional Infrastructure

Highly Manual Core Operations
Limited Time and Budget
for Future Initiatives



Modernized
Hyperconverged
Infrastructure

Streamlined and Modernized Core

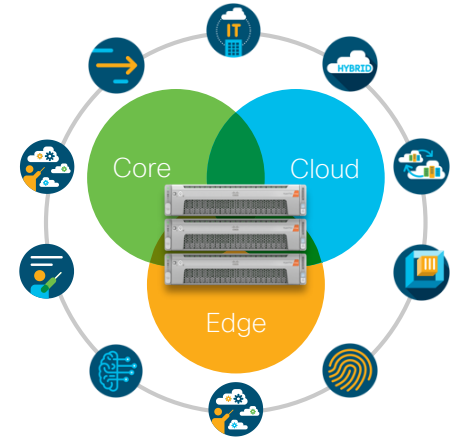


75% Management
Time Savings³

90% Downtime
Reduction⁷

80% Savings vs. 3-tier
Infrastructure¹

Optimized for the
Distributed Datacenter





Cisco HyperFlex

Your Platform to
Modernize The Present
Simplify Your Future

What is HyperFlex?

Engineered and Optimized HCI

Performance and Scalability to Power

Any App, in Any Cloud, at Any Scale



HX Data Platform

- Purpose Built for HCI
- Fast and Flexible
- Enterprise Grade Storage

Cloud Platform

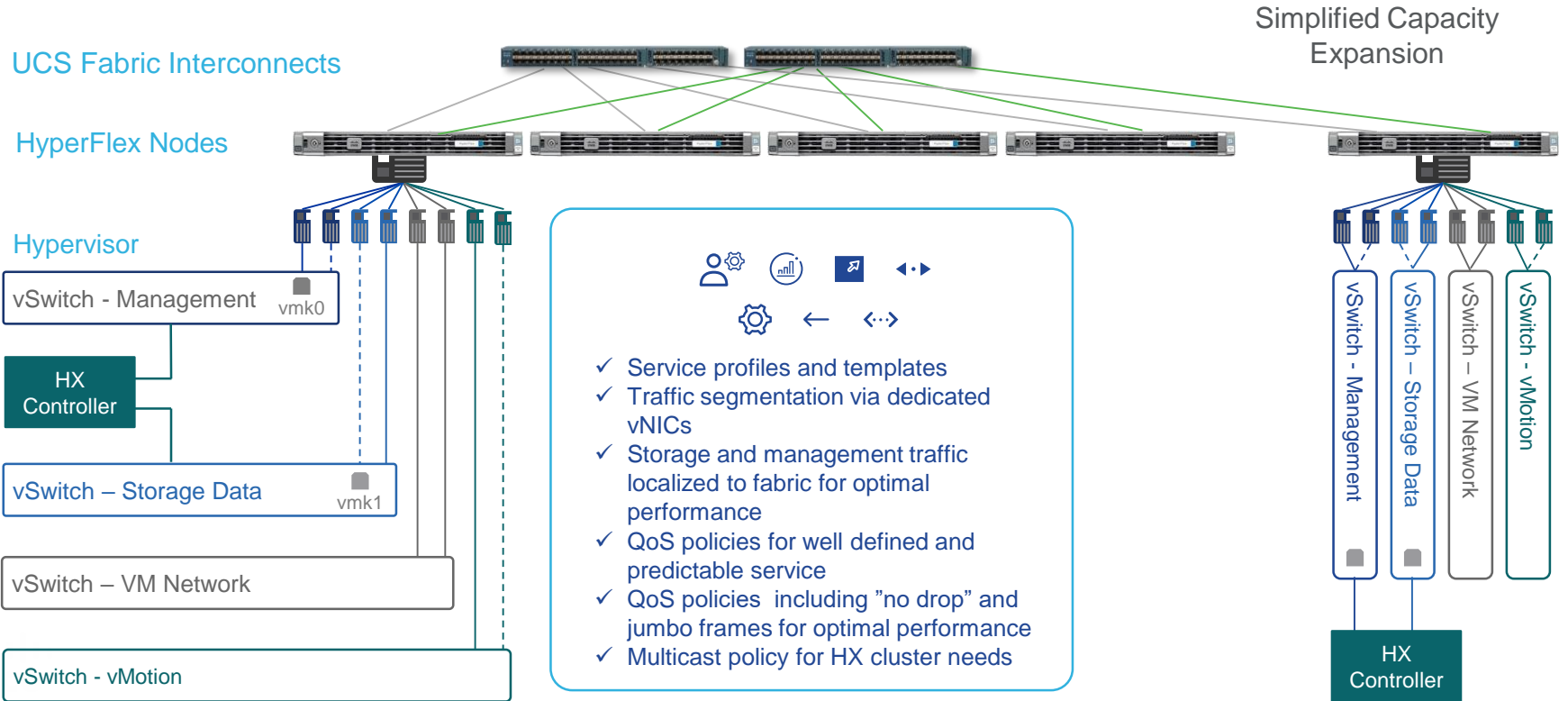
- Cisco Intersight
- Cisco CloudCenter
- Cisco Workload Optimization Mgr.

UCS Foundations

- Software Defined Compute
- Fabric Centric
- Intent-Based

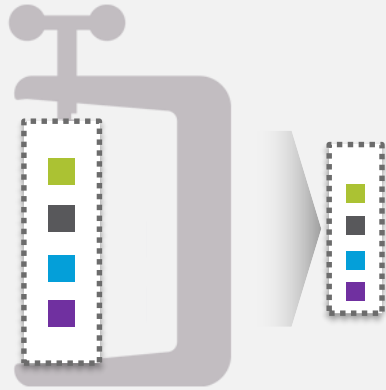
UCS Fabric Architecture with HyperFlex

Fully Automated Network, Node deployments



Continuous Data Optimization

Log-Structured File System Yields More Efficient Data Optimization



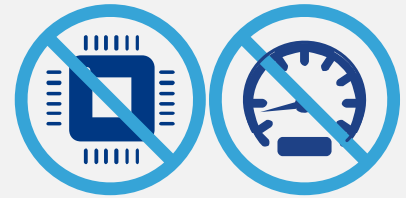
Inline Compression

30–50% space savings



Inline Deduplication

20–30% space savings



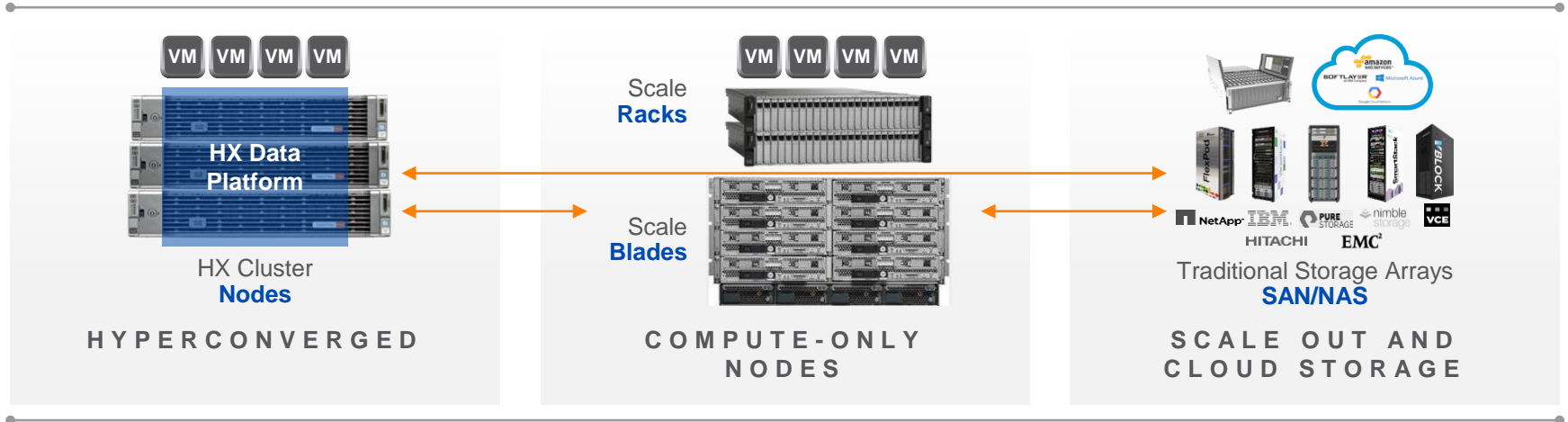
No Special Hardware
No Performance Impact
No Config lock-in
No Additional License

Lower Cost

Adaptive Infrastructure

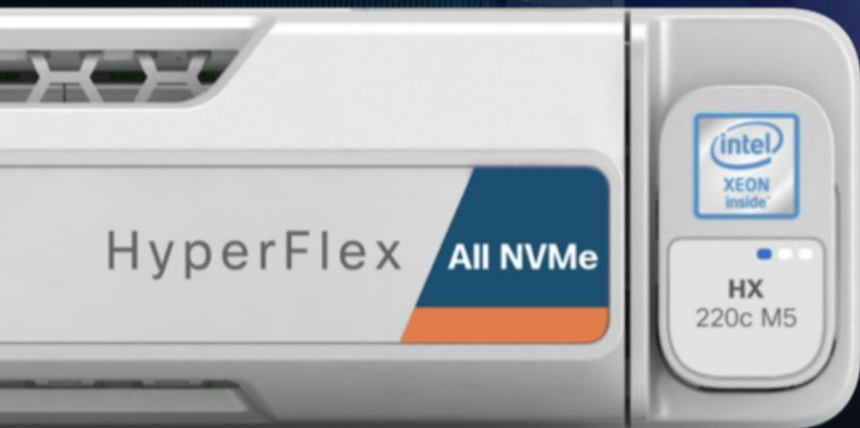
INTEGRATE INTO YOUR EXISTING INFRASTRUCTURE

COMMON NETWORK FABRIC



COMMON MANAGEMENT POLICY





Introducing Cisco
HyperFlex All NVMe™
Powered by Intel® Xeon®
Scalable Processors and
Intel® Optane™ DC SSDs

Modernize on a
Platform That Will
Simplify the Future



End-to-End Modernization Today

Game Changing Results



Test and
Development



Virtual Desktop
Infrastructure



Server
Virtualization



Databases
& ERP



ROBO &
Edge



3000+ Customers Are Saying

2x Virtual desktop speed⁴

50% Improvement in ERP
Response Time⁶

30% More Performance for
Mission Critical Apps⁵

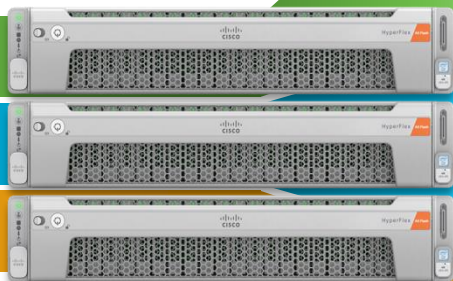
90% Downtime Reduction⁷

80% Savings vs. 3-tier
Infrastructure¹

75% Management
time savings³

51% Savings vs. Public Cloud
Over 3 years²

Platform to Simplify Your Future



Cloud Based Mgmt. Automation



AI Driven IT
Mgmt.
(AI Ops)



Intelligent
Workload
Placement



Application
Performance
Monitoring

Simplified Multicloud Operations



Multicloud
Platform



HCI Workload
Protection and
Analytics (Tetration)

Application Ecosystem Support



Machine
Learning
Platform



Integrated
Kubernetes

Managing your Future Datacenter

Harness the power of cloud-based management



Proactive
Guidance



Connected
Support





Remote
Deployment



Storage
Analytics

Data Center 1

Cisco HyperFlex



Cisco UCS


Branch Office

Standalone
Cisco UCS rack servers





Edge

Cisco HyperFlex Edge



Data Center 2

Cisco HyperFlex



Cisco UCS



Actionable Intelligence



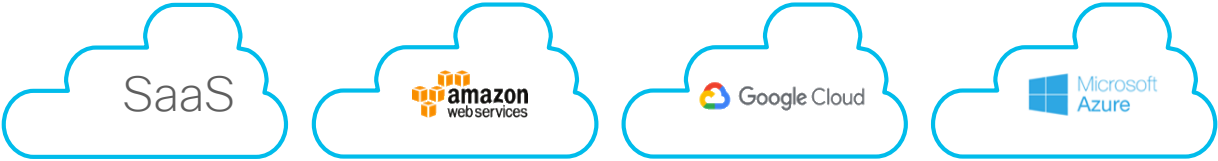
Increased Agility



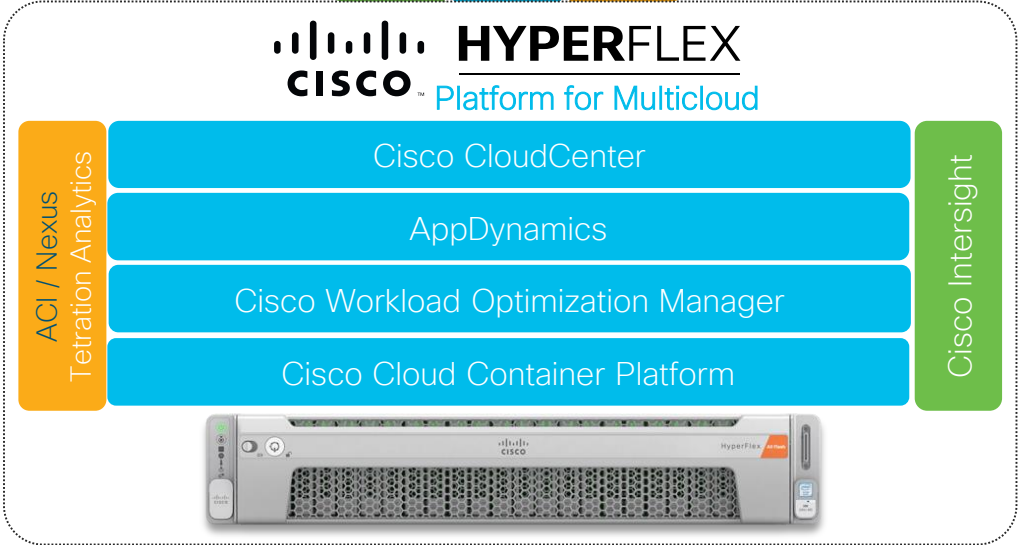
Reduced Operational Costs

Simplified Multicloud Operations

Simplified public cloud consumption

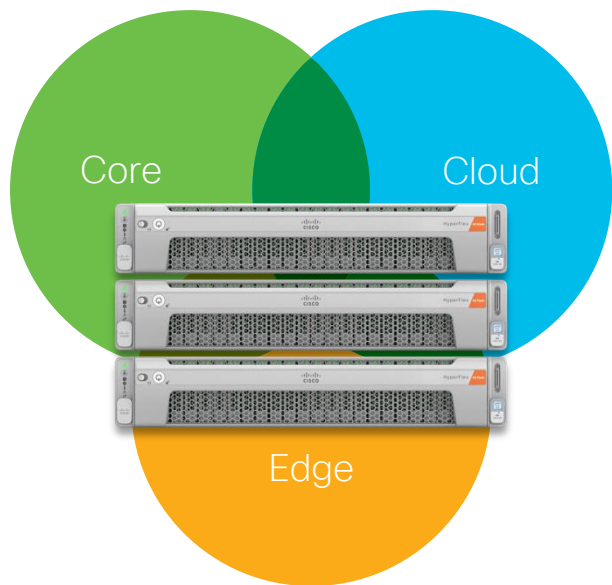


Cloud like experience on-prem



Cisco Hyperflex™ Systems with Intel® Xeon® Platinum processor

Supporting your Application Ecosystem



Enterprise Apps



Hybrid/Multicloud



Containers / Cloud Native Apps



Intelligent Management (AI Ops)



AI/ML Apps



Data Protection & Business Continuity

HyperFlex Data Protection Enhancements

Flexibility to meet business needs

RPO / RTO

> 24 hours

5mins - 24 hours

Zero

Integration with 3rd Party Backup Vendors



Backup & DR to Cloud

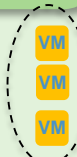


In-built Snapshots, Replication & Disaster Recovery

High Performing VM Centric Periodic Snapshots



Highly optimized long distance Async Replication



Planned Migration, Disaster Recovery and Test Recovery

Local High Availability and Stretched Clusters



Synchronous Replication



Local



Metro



WAN



Cloud

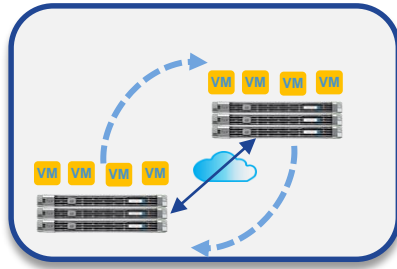
Use case for HX Native Replication

Disaster Recovery for Mission Critical workloads



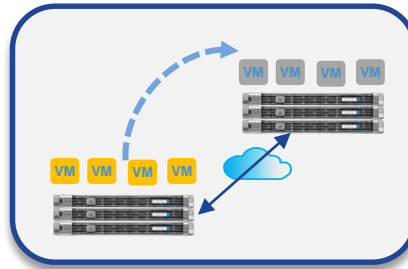
Active-Active DR

- VMs active on both sites
- Each site acts as a DR site for the other site
- Bi-directional replication



Active-Passive DR

- VMs active on Primary site
- Exclusive DR site
- Single directional replication



HyperFlex Data Protection

In-built 1-Click Disaster Recovery



Test Recovery



- DR Readiness
- Customize DR Test parameters

Planned Migration



- Move VMs across Data Centers / Clusters
- Re-Protect after Migration

Unplanned Failover



- Recovery VMs after Disaster
- Re-Protect after Recovery



HyperFlex Stretch Cluster Cloud Scale Data Platform

Power Mission Critical Apps with

Disaster Avoidance

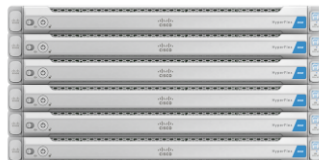
Maximum Uptime

Zero RPO

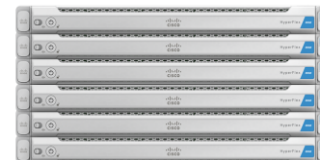
Automated DR



HX Data Platform



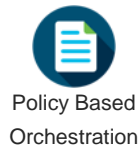
Site-A



Site-B

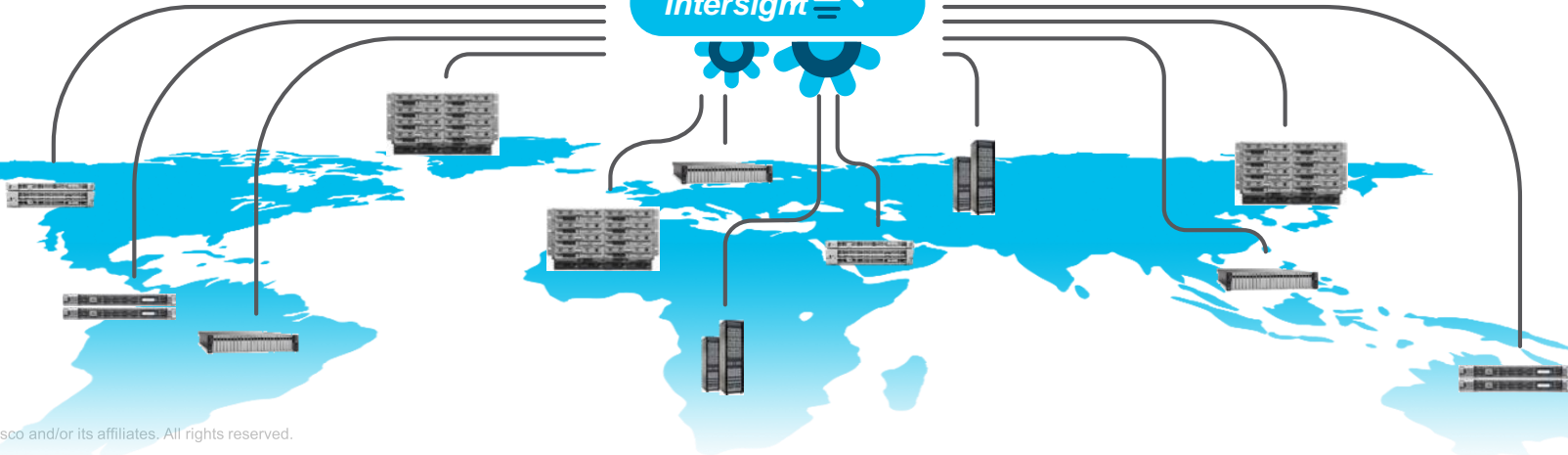
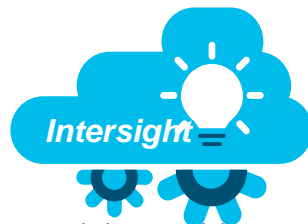


Cisco Intersight Intelligent Centralized Management



SaaS
Simplicity

Actionable
Intelligence



Get Started Today

1. Research

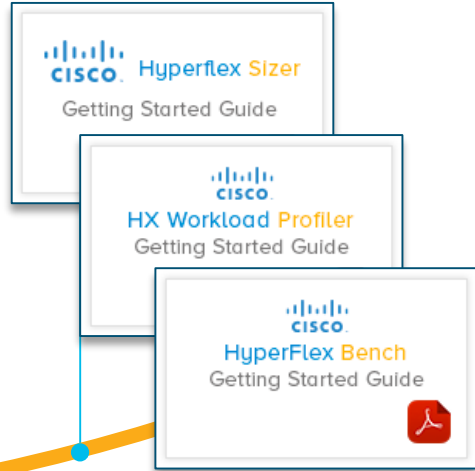
HyperFlex Systems & Cluster Configurations



https://www.cisco.com/c/en/us/td/docs/hyperconverged_systems/HyperFlex_HX_DataPlatformSoftware/b_Cisco_HyperFlex_Systems_Ordering_Guide/b_Cisco_HyperFlex_Systems_Ordering_Guide_chapter_00.html

2. Consult

Your Cisco Account team will size the perfect HyperFlex Solution



3.



Proof of Concept



What to expect



Increased Application Performance



Spend Less Time Managing your Infrastructure



Lower TCO



HYPERFLEX

Multicloud Platform

Any App. Any Cloud. Any Scale.





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Systems with
Intel® Xeon®
Platinum processor