CISCO Live!

Let's go

HCI and Cisco

Focus

- Build the best servers
- Deliver the best management stack
- Integrate with the best partners

Simplify

- Accelerate infra. deployments
- Operate at a global scale
- Resiliency through collaboration

Opportunity

- Enterprise and cloud–native applications
- Emergence of edge computing
- Hybrid cloud mobility

[1] Gartner: Forecast Analysis Integrated Systems, Feb 2023

Organizations are looking for hyperconvergence to:

Simplify IT operations

By easily and quickly deploying infrastructure and applications across on-premises, edge, and cloud environments

Eliminate complexity

At every layer of infrastructure and operations

Gain flexibility

To address diverse apps and use cases

Prevent downtime

To focus exclusively on business outcomes

Accelerate sustainability

By reducing energy and material waste

Raising the bar for hyperconverged solutions

Cisco and Nutanix introduce the industry's most complete hyperconverged solution through expanded engineering, support, and go-to-market collaboration

CISCO

### Best-in-class compute, network, and SaaS-based infrastructure management

- Stateless, programmable policy-based systems
- See, control, and automate infrastructure from one place
- Proactive, automated health monitoring and support capabilities

+

NUTANIX

Leader in hyperconverged software

- One unified platform enables seamless workload mobility
- A complete set of enterprise and cloud features
- Enterprise-grade disaster recovery and security capabilities

Nutanix Cloud Platform

Cisco Intersight

Cisco Compute and Networking
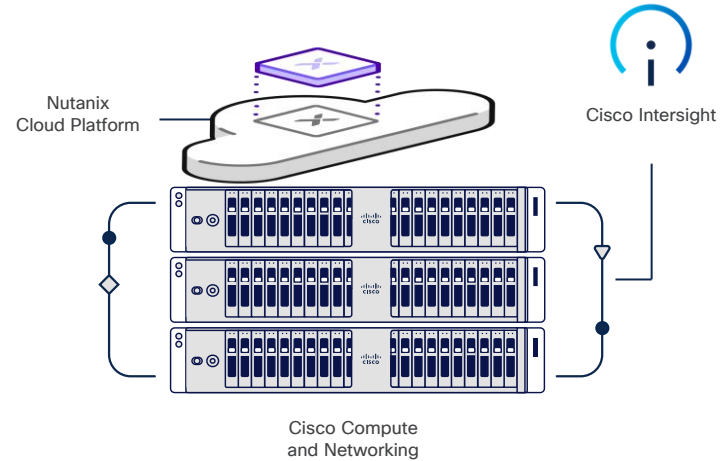
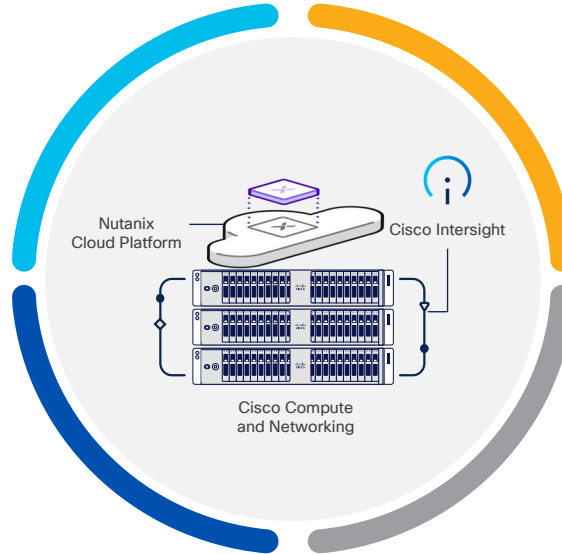**Simplify and accelerate the delivery of IT infrastructure**

A unique-to-the-market, 360-degree partnership

Strategy

Complete roadmap leveraging the strengths of both companies in service of our customers

Engineering

A solution built, managed, and supported holistically for a seamless end-to-end experience

Nutanix Cloud Platform

Cisco Intersight

Cisco Compute and Networking

Go to market

Combined, expert sales teams and buying process focused on simplifying the customer experience

Support

A joint augmented support model built for information-sharing to ensure our customers' success
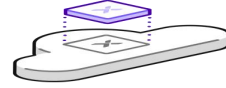
Operate at scale	More choice and flexibility	End-to-end security	Comprehensive support	Easy to buy

Solution components
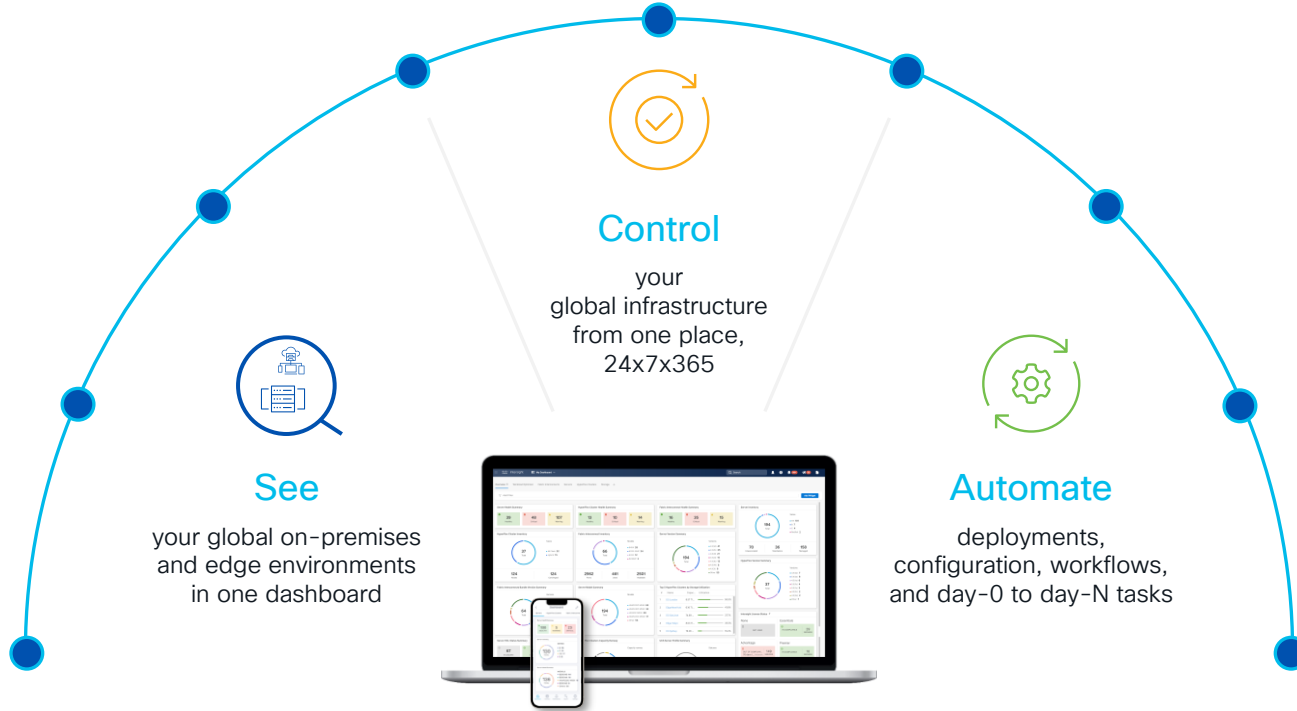

NUTANIX Cloud Platform

NUTANIX Cloud Manager (NCM)

NUTANIX Unified Storage (NUS)

NUTANIX Cloud Infrastructure (NCI)

IT operations. Simplified.

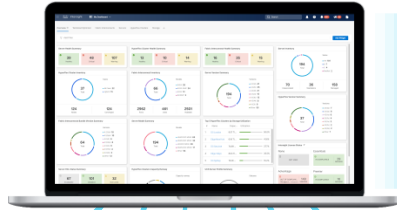## Cisco Intersight® Infrastructure Service

Control

your
global infrastructure
from one place,
24x7x365

See

your global on-premises
and edge environments
in one dashboard

Automate

deployments,
configuration, workflows,
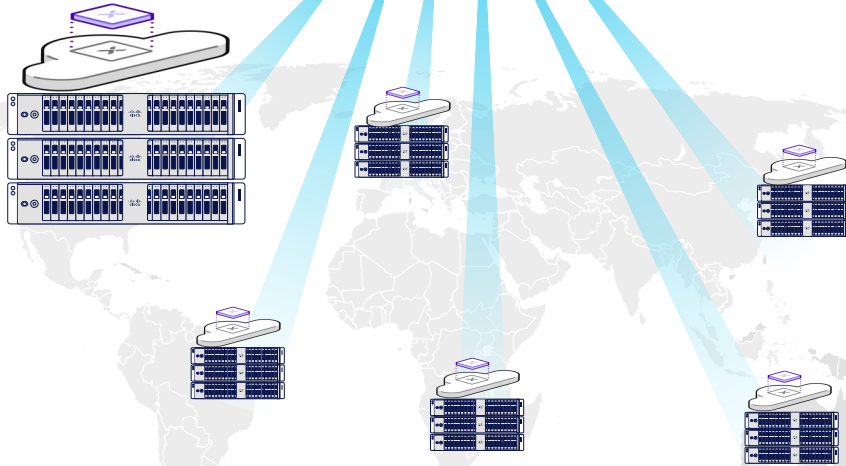and day-0 to day-N tasks

# Cisco Intersight

Cisco Intersight

SaaS-based management platform providing global visibility and fleet management for all Cisco Compute Hyperconverged with Nutanix nodes
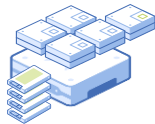
- Nutanix personality in Intersight

- Connected TAC

- Proactive RMA

- Hardware contract status, EoL notices, security advisories and field notices

- Server faults/alerts

- Basic server management—KVM, cross launch UCSM

Flexible options and scalability
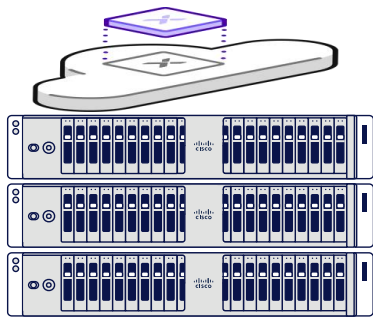
Cisco Compute Hyperconverged with Nutanix

Node Expansion Options

HCI
Adds CPU, memory and disk capacity resources to a cluster

Storage-Only
Adds only disk capacity resources to a cluster

Compute-Only *AHV Only
Adds only CPU and memory resources to a cluster

Hypervisor Options

NUTANIX
Acropolis Hypervisor (AHV)
min 3 max 32

Nodes per Cluster

vmware
vSphere Hypervisor (ESXi)
min 3 max 48

NUTANIX Cloud Infrastructure (NCI)
Max Raw Capacity Per Node **182TB**
✓ Mixed Drive Support
✓ Mixed Node Support

Cisco Compute Hyperconverged Physical Node Types

C220 M7 All-Flash Node

C240 M7 All-NVMe Node

C240 M7 All-Flash Node
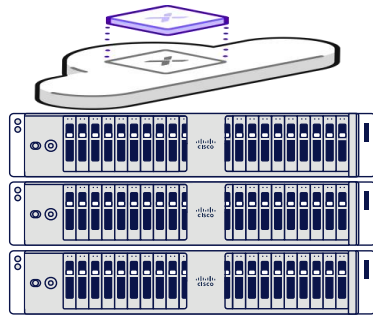
C220 M6 All-Flash Node

C220 M6 All-NVMe Node

C240 M6 All-Flash Node

NOTE: See solution documentation for all caveats, limitations and compatibility information

Cluster lifecycle operations

Cisco Compute
Hyperconverged with Nutanix

Integrated and Automated Lifecycle Operations

Cluster Installation

with
NUTANIX
Foundation VM

Fully integrated cluster installation automation across Cisco UCS and Nutanix Cloud Infrastructure, driven from Nutanix Foundation.

Operational Summary

- Inventory Cisco UCS servers
- Create Cisco UCS Service Profiles
- Perform hypervisor imaging
- Deploy Nutanix storage controller VM (CVM)
- Create new hypervisor and storage cluster

Cluster Expansion

with
NUTANIX
Prism/Prism Central

Fully integrated cluster expansion automation across Cisco UCS and Nutanix Cloud Infrastructure, driven from Nutanix Prism or Prism Central.

Operational Summary

- Inventory new Cisco UCS servers
- Create Cisco UCS Service Profiles for new nodes
- Perform hypervisor imaging
- Deploy Nutanix storage controller VM (CVM) on new nodes
- Join new nodes to existing hypervisor and storage clusters

Cluster Upgrade
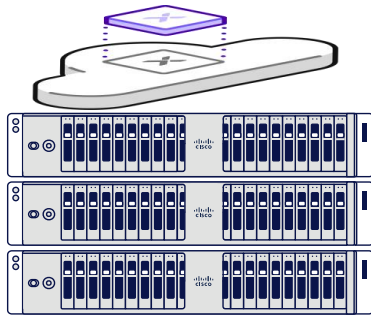
v1.0   v2.0
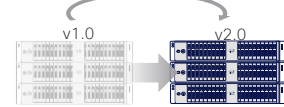
with
NUTANIX
Prism/Prism Central

Fully integrated end-to-end cluster software and firmware upgrades with Nutanix Prism or Prism Central Life Cycle Manager (LCM).

Operational Summary

- Upgrade of Cisco UCS infrastructure and server firmware
- Upgrade of hypervisor software, VMware ESXi and/or Nutanix AHV
- Upgrade of Nutanix Cloud Infrastructure software

Integrated networking

Cisco Compute
Hyperconverged with Nutanix

Value of Integrated Networking

Full-Stack HCI solution with end-to-end network automation

Network

NUTANIX Cloud Infrastructure (NCI)
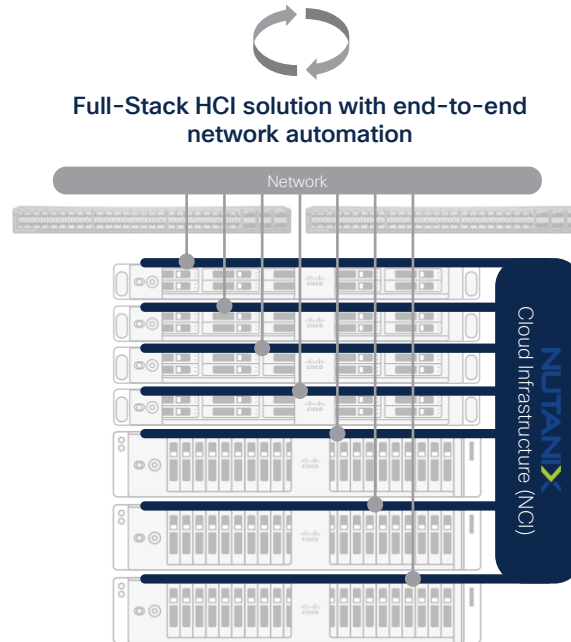
Automation creates all physical and virtual networking

Cisco and Nutanix remove the risk and simplify the entire network configuration

Applies consistent procedures for HCI networking to eliminate manual setup errors

Clusters require network switching which requires many cables, adapters, switch ports and additional complexity

Network faults are the main cause of cluster install failures

Supportability becomes an issues and leads to finger pointing

Security and governance
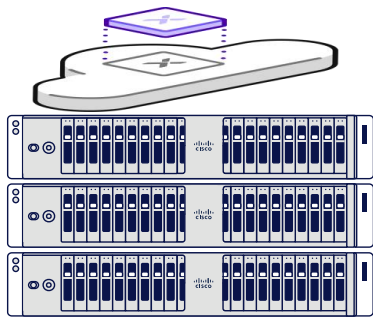
Cisco Compute
Hyperconverged with Nutanix

Secure Data and Network

Security Monitoring
- Prism Security Dashboard
- Cisco Intersight security advisories
- CVE monitoring for AOS clusters and UCS infrastructure

Ransomware Protection
- Data Lens: file analytics, anomaly detection, audit trails
- Write-Once-Read-Many protection for files and objects
- Integrated snapshots, backup and recovery

Secure Networks
- Flow network segmentation
- Cisco ACI integration
- Cisco Secure Firewall Virtual support

Secure Platform

IAM & Security Baseline
- MFA via SAML
- RBAC and audit logging
- Factory applied baselines
- Automated security configuration
- STIG hardening

Data Protection
- Data-in-flight and at-rest encryption (SW & SEDs)
- Encryption key management
- FIPS 140-2 encryption modules
- Replication & recovery planning

Compliance
- Support compliance of regulatory policies
- HIPAA, PCI DSS, NIST, GDPR and more
- Certifications: FIPS 140-2, Common Criteria, DoDIN APL

Secure Compute

Trustworthy Platform
- Multi-point secure boot and Trust Anchor Module*
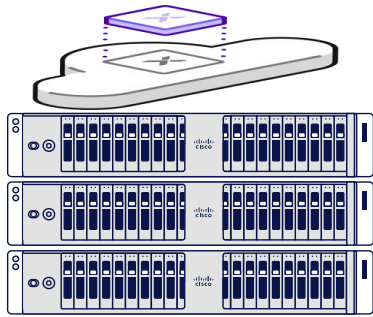- Prevents malicious FW and BIOS from booting

Authentic HW & FW
- Cisco signed FW and immutable HW identity
- HW and FW handshakes provide continuous verification of authenticity

Secure Development
- Rigorous Cisco Secure Development Lifecycle
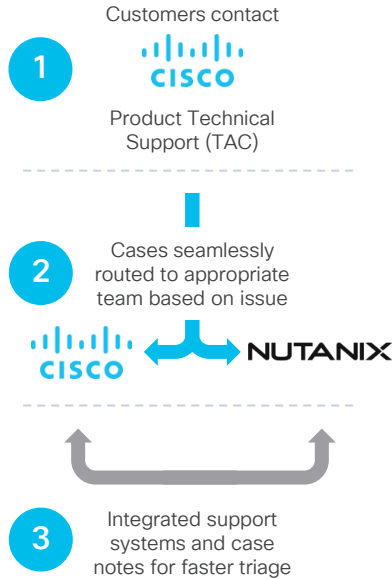- Dedicated teams for threat modeling, vuln management, pen testing

* UEFI secure boot support for Nutanix by Cisco IMC coming soon

Global support

Cisco Compute
Hyperconverged with Nutanix

Seamless Integrated Support Model

1 Customers contact

CISCO

Product Technical Support (TAC)

2 Cases seamlessly routed to appropriate team based on issue

CISCO → **NUTANIX**

3 Integrated support systems and case notes for faster triage

Case Generation Options

Manual	Automated	
	NUTANIX Insights	**CISCO** Intersight
User Initiated	for Hardware & Software Alerts	for Hardware Alerts

Customers can contact TAC to open a case and/or they can have intelligent software do it for them with features such as Proactive RMA
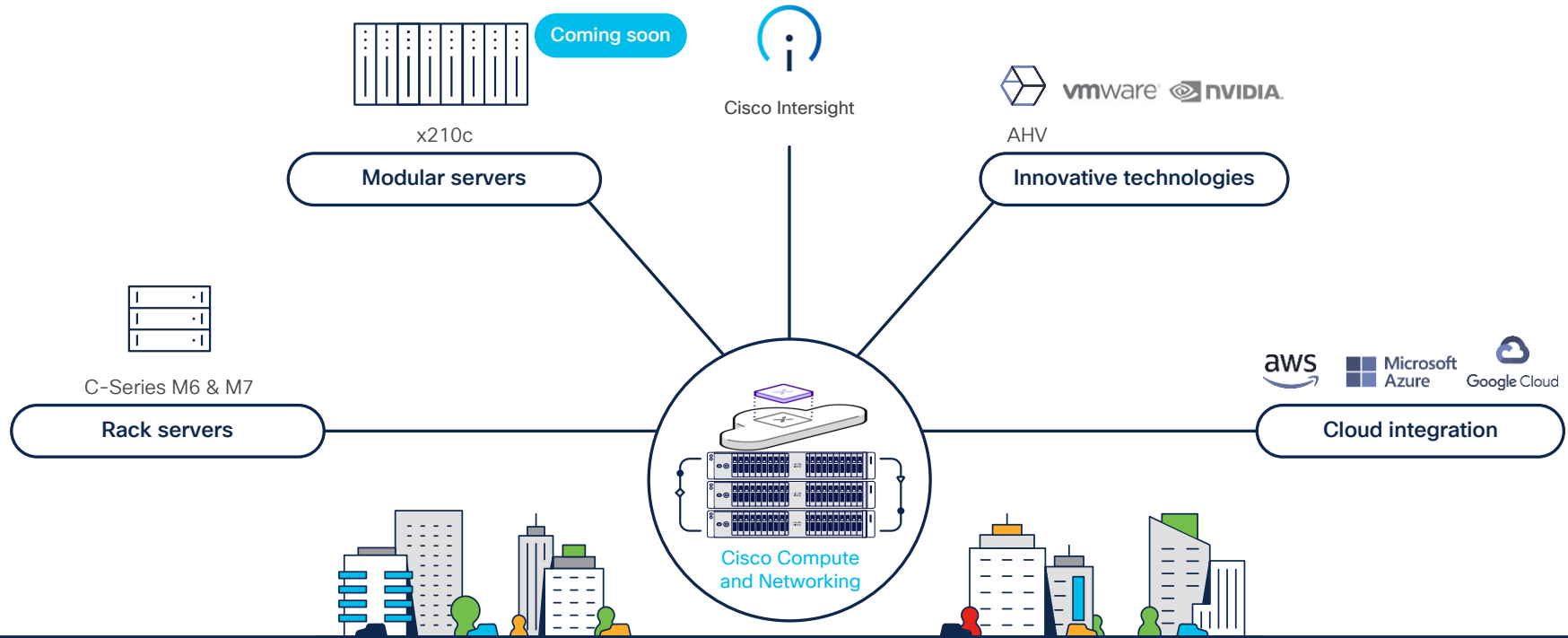
Minimizing Support Burden on Customers

NUTANIX Insights

CISCO Intersight

- In-depth system health checks
- Security advisories and notifications
- Recommendations to remediate problems
- Proactive RMA of faulty components
- Automated log bundle collection
- Audit and correlate historical cluster events such as alerts, discoveries, upgrades, hardware replacement and more via Cluster Timeline

Accelerate IT transformation with more choice

Coming soon

x210c

Modular servers

Cisco Intersight

AHV

vmware   NVIDIA.

Innovative technologies

C-Series M6 & M7

Rack servers

aws   Microsoft Azure   Google Cloud

Cloud integration

Cisco Compute and Networking

Virtual infrastructures

Hybrid cloud

Enterprise applications

AI/ML

Containers

Desktop virtualization

Data protection

Solution portfolio

The most complete hyperconverged solution

Confidently deploy and scale IT infrastructure to meet your business goals

Cisco Compute Hyperconverged with Nutanix

Complete SIMPLICITY

Easy-to-buy, unified hyperconverged solution for hybrid multicloud operations with pre-engineered compute, storage, SaaS-based management *and networking*

Complete FLEXIBILITY

Expanded capabilities to addresses modern apps and use cases with flexible deployment options, latest technologies, and multicloud connectivity

Complete RESILIENCY

Differentiated ability to keep systems running with augmented, proactive support and security capabilities

Cisco Compute Hyperconverged at Cisco Live

- **Demo pod in World of Solutions:** Networking zone located near Industrial IoT Solutions Wall

  - **Title: Power a Hybrid Cloud Future – Cisco Compute Hyperconverged with Nutanix**

    - Features demos on how to install and expand clusters, deploy Nutanix foundations, BDM and TDM presentations and more.

- **PSO Session: PSODCN – 1733, 2/8 @ 11:30 AM**; Speaker - Jonathan Gorlin

  - Title: Simplify Infrastructure and Operations with Cisco Compute Hyperconverged with Nutanix

- **Breakout Session: BRKDCN-1669, 2/6 @ 1:15PM**; Speaker - Brian Everitt

  - Title: Cisco HCI Solutions 101 in 60 minutes

- **Nutanix – Gold Sponsor**

  - Booth in WoS with demos

  - **Partner Presentation Session: PARDCN-1458, 2/7@3:10pm**; Speaker – Lee Caswell

    - Title: Accelerate Modern Apps and AI with Modern Infrastructure

- **Intel booth:** Mini-theater presentation - 2/8 @ 2pm

Learn more

3 Resources — https://bit.ly/3LT3Mc9

2 Cisco DC Blogs — blogs.cisco.com/datacenter

1 Cisco.com — cisco.com/go/computehyperconverged

CISCO *Live!*

Let's go