

Compute Infrastructure for the Al Era



Dan DeBusschere - Solutions Engineer

Perry Carraway - Account Executive, Architecture

Al Data Center Track

1) Compute & Containers





2) Networking: Inter-





3) Connecting: Intra-









4) Security & Observability







Cisco powers how people and technology work together across the physical and digital worlds

Al-ready data centers

Transform data centers to power Al workloads anywhere

Future-proofed workplaces

Modernize everywhere people and technology work and serve customers

Secure global connectivity

Digital resilience

Keep the organization securely up and running in the face of any disruption

Accelerated by Cisco Al



Cisco Al: Accelerating outcomes



Al infrastructure

Security for Al

Al-native products

Data

Services

Transform data centers to power Al workloads anywhere



Robust, flexible infrastructure

Power Al and traditional workloads with networking, silicon, and compute in fully-integrated and scalable systems

Seamless operations and observability

Remove silos with unified management, observability, and assurance for traditional and Al workloads, across all environments

Security from ground to cloud

Protect distributed workloads by infusing security everywhere

Our customers tell us

Standing up enterprise-grade Al infrastructure is hard. Organizations face complexity, fragmentation, and security concerns.







Too many tools, not enough integration

Uncertain ROI to build Al-ready environments

Security risks across the Al lifecycle

The Al-ready data center

5

Powers all workloads



Scales for growth



Unifies management

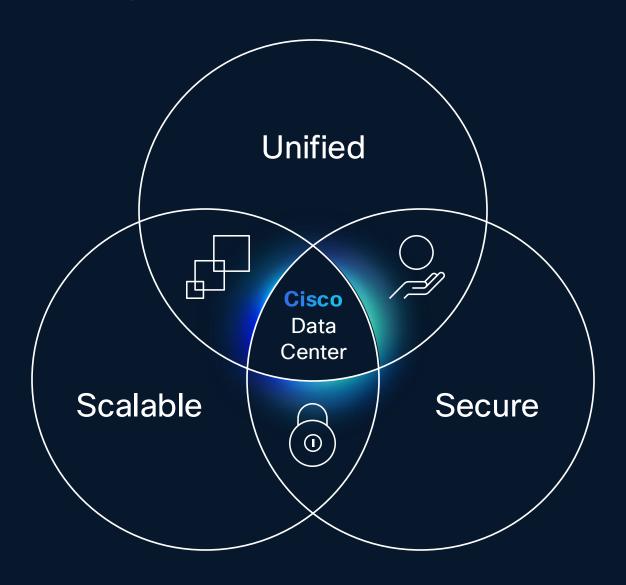


Secures the entire stack



Keeps resilient

Whether you're modernizing traditional workloads, or scaling for AI, Cisco's approach is...



Our approach



Unified architecture



Unified operations



Unified solutions





Cisco Unified Compute

Cisco Networking



Cisco Networking



Unified Architecture

The foundation for enterprise workloads



Cisco Unified Compute



Cisco Unified Compute





Cisco Optics

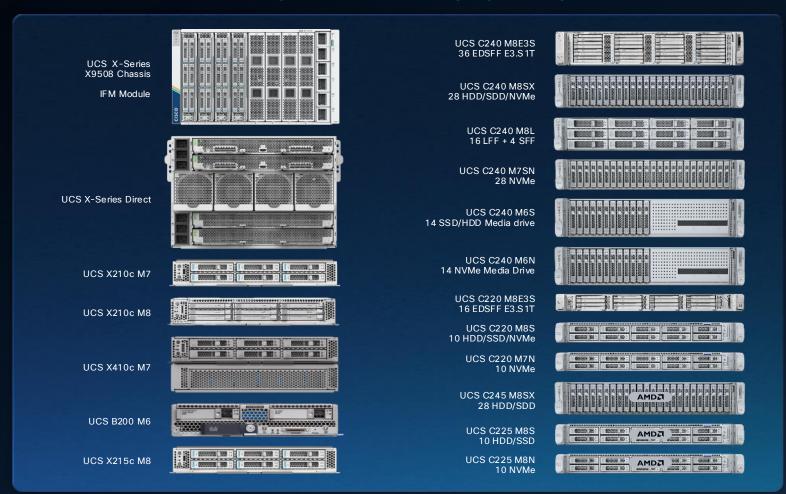
Unified Architecture

We're future-proofing your infrastructure for Al

Compute for every workload

Cisco UCS Compute Portfolio

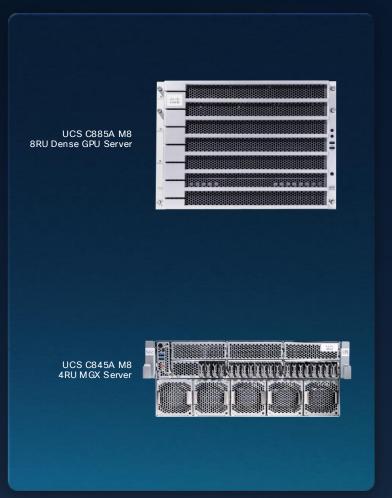
MAINSTREAM ENTERPRISE SERVERS



Edge Platforms

Check cisco.com on/after November 4th for a groundbreaking edge platform announcement

AI SERVERS



Cisco tops list for server reliability

According to a survey by the Information
Technology Intelligence Consulting Corp (ITIC)
reported by Tech Channel

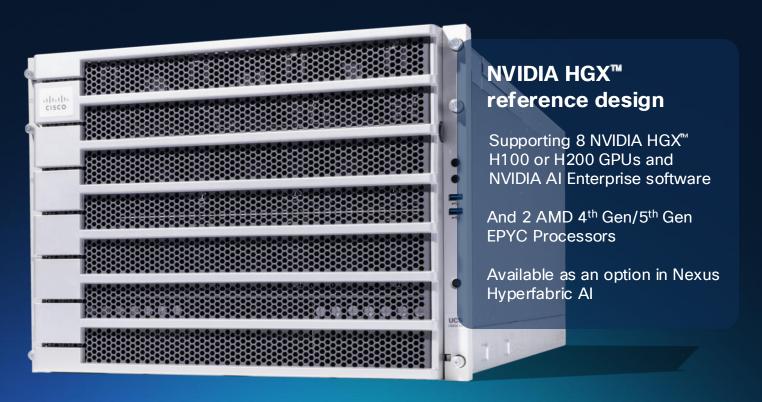
TechChannel®

Server Reliability Survey: IBM, Lenovo, Cisco Top ITIC's List Shipping Now

High-density GPU servers

For data-intensive use cases like model training and deep learning

UCS ACCELERATED | CISCO UCS C885A



Shipping Now

Flexible, modular Al servers

"Start small and scale up" with Al

UCS ACCELERATED | CISCO UCS C845A



High performance in a compact form factor

Enhanced power delivery, fewer PCBs, and better cable routing for optimal airflow and thermal management

with NVIDIA RTX PRO 6000 Blackwell GPUs [orderable now]



Unified Operations

We're making Al easier than ever to operate

Centralized infrastructure management

Conventional approach

Fragmented and Siloed Systems Management

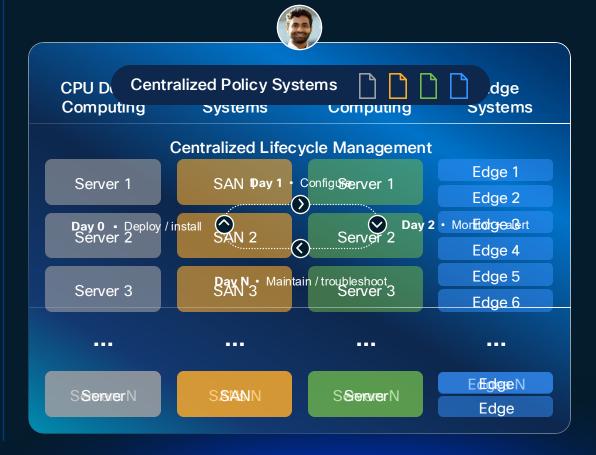






Cisco Computing System

Centralized visibility, policy, automation across entire footprint



Cisco software-defined computing

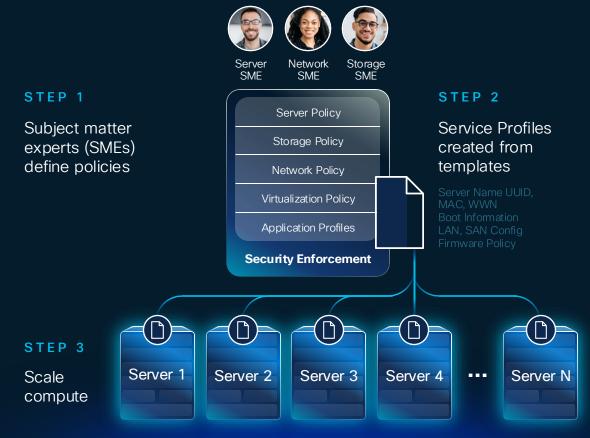
Conventional Approach

Massive complexity and time to scale compute



Cisco Computing System

State-less to State-full compute in minutes



What if you could...



Deploy and configure infrastructure for any type of workload (traditional or AI) in minutes, anywhere?



Monitor and track energy consumption while controlling power management across your server fleet?



Operate and monitor your onpremises and edge environments from one dashboard?



Address potential hardware, OS, or software issues before they impact users, or minimize them when they occur?



Continuously identify and close security gaps?



Give your staff the ability to accomplish more without creating additional burdens?

You can do all of this with...



Cisco Intersight®

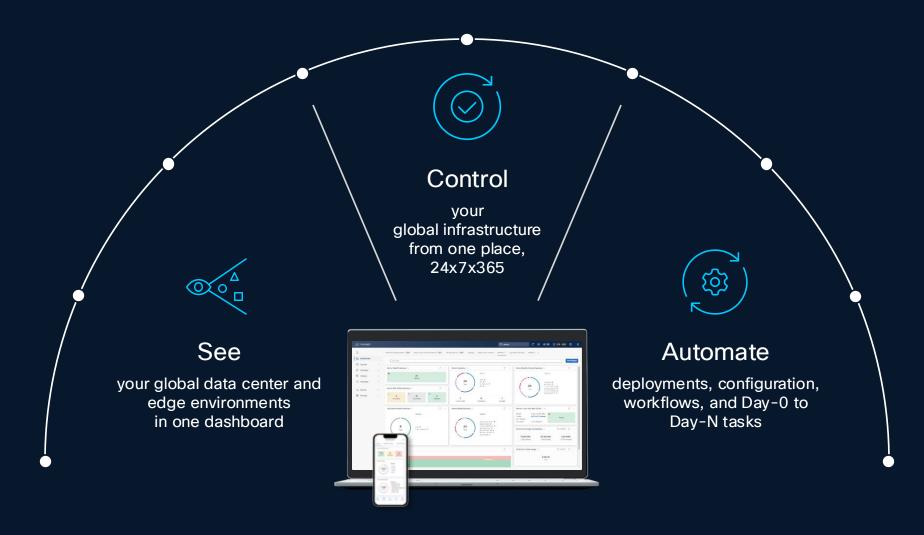
See, control, and automate your Cisco UCS®, converged, and hyperconverged infrastructure throughout its lifecycle—wherever it is—from one place

Intersight - Benefits



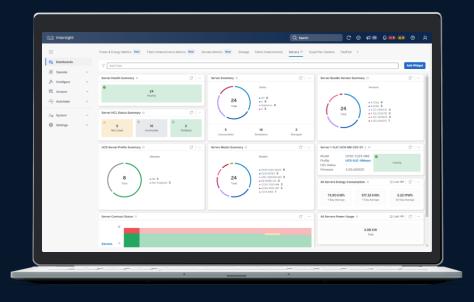
Intersight - IT operations. Simplified.

Cisco Intersight®



Intersight - View in one place

- Your global Cisco® Unified Computing System (UCS), converged, and hyperconverged infrastructure
- Servers, virtual machines, storage, and networking
- Real-time physical and virtual device status, UCS domain connectivity issues, security advisories, field notices, and hardware compatibility status
- Selected historical data (up to two years)



The customizable dashboard uses widgets for a single view of the health and inventory status of managed devices.

"[Cisco] Intersight® allowed us to quickly find a problem that would have taken us months to troubleshoot without the visibility that Intersight provides."

Director of IT and Communications, regional medical center

"With Cisco Intersight, I can now see information that I did not have before. It is one of the first places that we go to when we have performance issues or if a tech upgrade is requested."

Director of IT, state governmental agency



Intersight - Comprehensive infrastructure support





Cisco UCS®

Configure, deploy, operate, and maintain C-Series and X-Series rack and blade servers, anytime and anywhere





Cisco® converged infrastructure with UCS X-Series

See converged infrastructure inventory and incorporate into orchestrated workflows



Cisco Compute Hyperconverged with Nutanix

See and control your entire hyperconverged infrastructure fleet in one place—spanning clusters globally



Al-ready infrastructure

Cisco Al PODs: Deploy, monitor, and support Al inferencing solutions on-premises and at the edge

Cisco Intersight® provides the most comprehensive set of infrastructure management capabilities for any UCS server form factor and most generations in one place.

Other vendors either provide less functionality, cannot cover their full server suite, or require you to use multiple tools.

Intersight - Ecosystem integration

Storage plugins







- See storage capacity, controllers, configuration, snapshots, and replication
- Automate storage management and orchestration
- Use storage task library to create and execute workflows

Virtualization*





Red Hat NUTANIX

- See virtual machine inventory and supporting infrastructure across onpremises/edge environments
- · Standardize management of virtual infrastructure
- Efficiently provision and simplify management of daily operations

*Feature set varies by hypervisor

ServiceNow plugins

servicenow

Service Graph Connector for Cisco Intersight®

Ingest data from Cisco Intersight-connected devices into ServiceNow to resolve issues faster

Cisco Intersight: Incident Management Integration

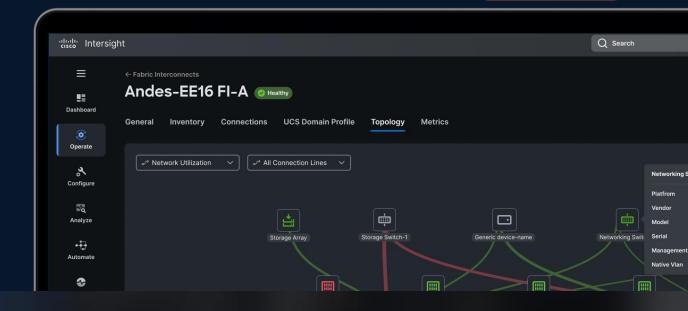
Automated Incident Generation: Raises incidents in ServiceNow for alarms and advisories from Cisco Intersight

Cisco Intersight Add-on for Splunk

splunk>

- Monitor your Cisco UCS infrastructure from Splunk
- Quickly diagnose and act on potential issues
- Leverage Splunk's analytics capabilities to identify potential issues in Intersight-managed UCS infrastructure
- Unify data from compute and other platforms in Splunk to gain a comprehensive understanding of IT operations
- Strengthen security posture by integrating Intersight's infrastructure insights with Splunk Enterprise's advanced threat detection and compliance monitoring

Unified intelligence with Cisco Intersight



Next-gen metrics

Uncover hidden trends, optimize performance, and supercharge operational awareness

Enhanced topology view

Gain a holistic perspective of UCS domains for clarity, context, and control

Complete visibility and assurance

Gain deeper visibility into server health and performance, and ensure high-speed networking with proactive monitoring

Unified solutions

We're expanding our solutions to meet your needs







Unified Solutions

The power of partnering with industry-leading tools























Unified Solutions

Cisco Secure Al Factory with NVIDIA

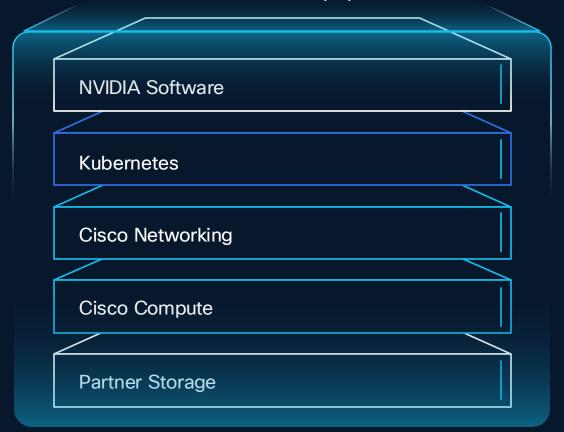
A reference design with validated architectures to accelerate Al adoption

Nexus Hyperfabric Al

AI PODs

Cisco Security

Embedded at every layer





Cisco Al PODs for entire Al lifecycle

Scalable architecture, support any Al workload







Unified Solutions

The power of partnering with industry-leading tools























Cisco Compute Hyperconverged With Nutanix

A better together partnership where 1+1=11



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

Cisco Compute and Networking

Solutions

Built, managed, and supported holistically for a seamless end-to-end experience

Go to Market

A buying process focused on simplifying the seller and customer experience

Support

A joint enhanced 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







Unified Solutions

The power of partnering with industry-leading tools

























FlashStack*





- Full Stack solution tested and validated by Cisco and Pure Storage
- Designed, implemented, and supported by Pure partners
- Storage, Network, Compute: Best of breed components, flexible design.

FlashStack Solutions Are Available For:































Unified Solutions

The power of partnering with industry-leading tools















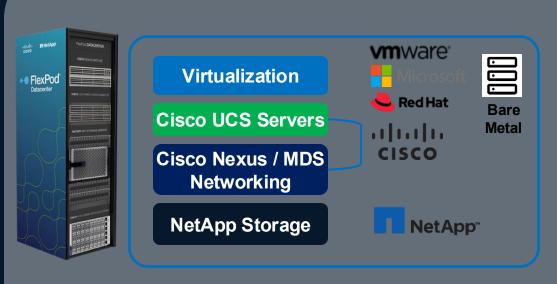








FlexPod - Customer Benefits





Greater Consolidation

FlexPod allows enables network consolidation and reduces unnecessary costs on standby racks and storage by half that saves millions of dollars.



Faster Time to Value

Cisco Validated Designs (reference architectures) helped reduce by 20% the time required for senior IT staff to manage network architecture.



Simplified Deployment

FlexPod is designed to simplify and accelerate the deployment of virtualized data center infrastructure.



Scalability

FlexPod can scale up or down to meet changing business requirements and support growth.



Al-Ready

Pre-validated reference designs for Gen Al, RAG, and MLOps



Improved Performance and Scale

The combination of Cisco UCS and NetApp storage provides verified, superior performance; scale and reliability for all your applications.



Support

FlexPod is backed by Cisco and NetApp, providing customers with a single point of contact for support and service.







Unified Solutions

The power of partnering with industry-leading tools























VAST data

The data platform for the Al era





Unified data architecture



Real-time performance



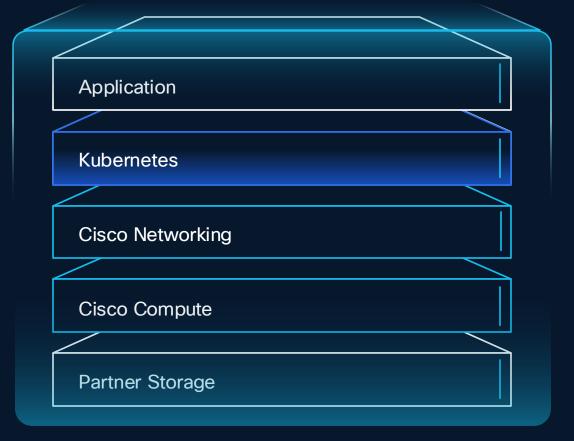
Enterprise-grade security & compliance

Cisco is fusing **Security** into every layer of the stack

It's not just about AI: Cisco offers full-stack readiness for every workload

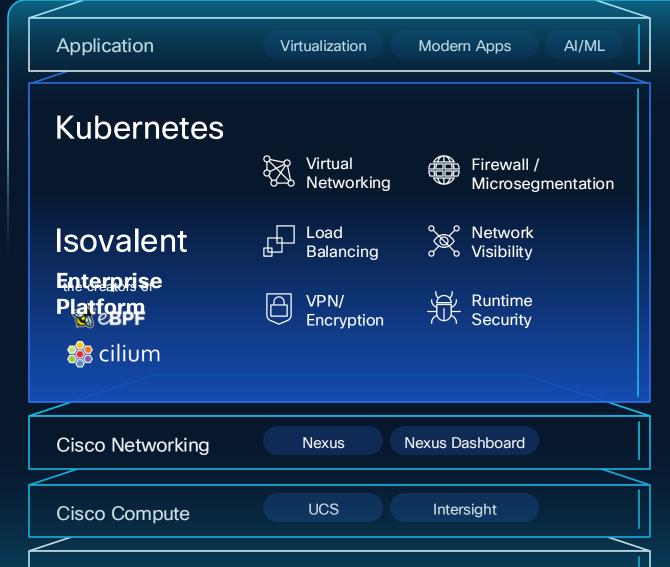
Cisco Security

Embedded at every layer



Cisco Security & Observability

Embedded at every layer







Splunk Enterprise Security Sec Ops



Hypershield **Network Sec**



Splunk Observability **Developers**



Nexus, ACI, Isovalent LB **Network Ops**

Server Ops

The future of Cisco and Isovalent

Workload Portability

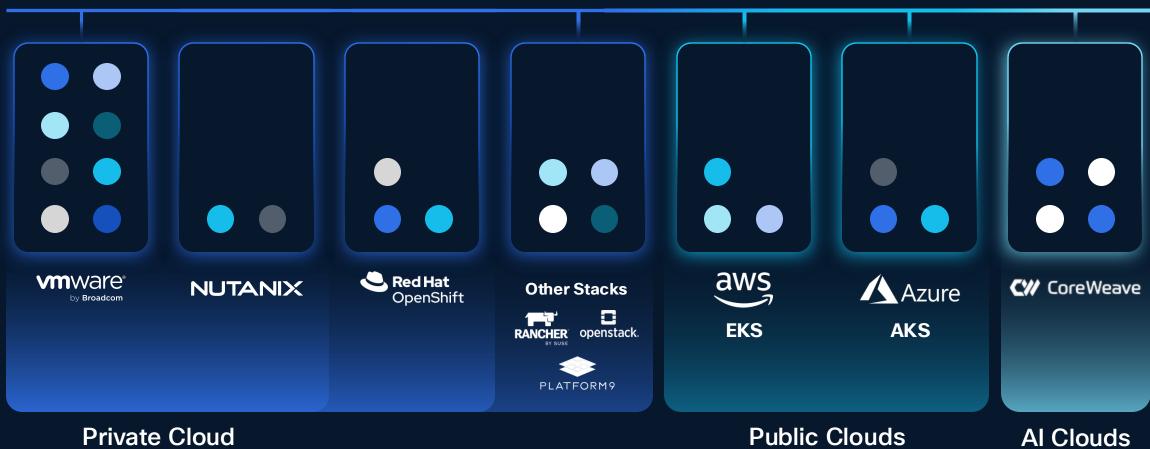
Modern Applications

Virtualization

4,

Connect & Secure Workloads Anywhere





illilli CISCO Why we believe this is a game-changer

Envisioning a world where you can migrate with confidence and modernize without disruption

Security

without Silos

Migration

without Disruption

Visibility

without Complexity

Choice

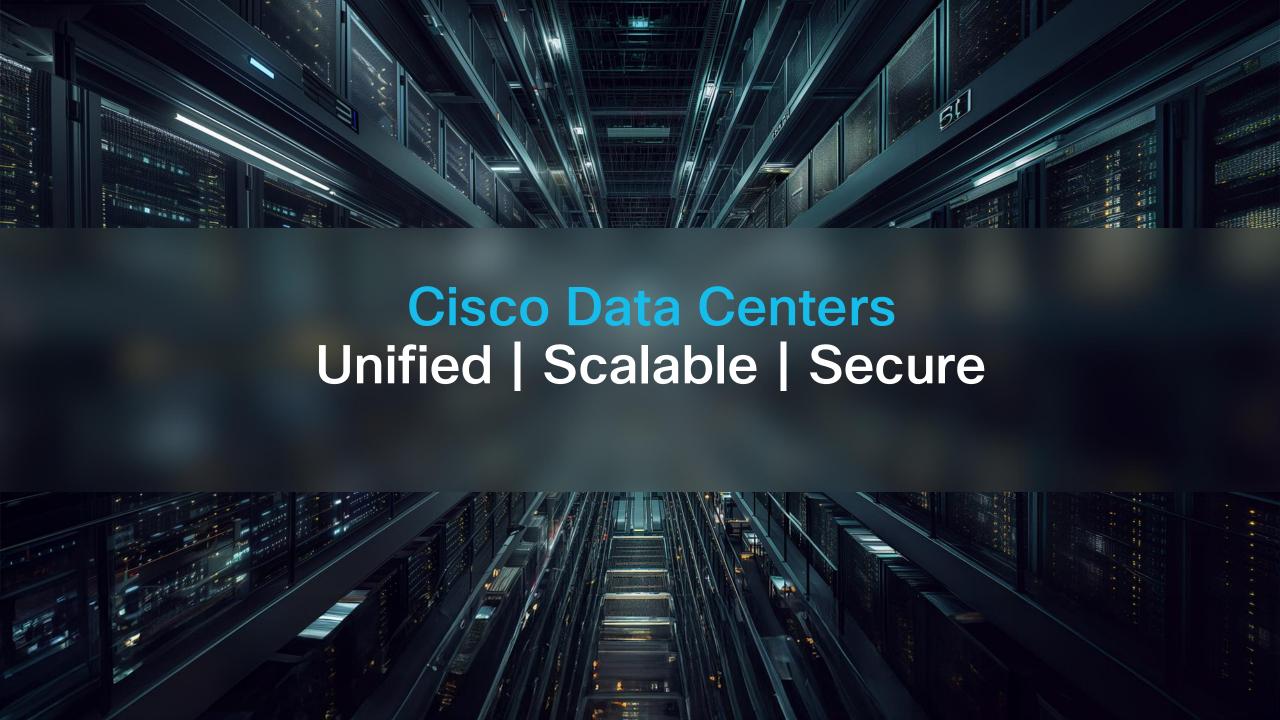
without Compromise

Full or partial hypervisor migrations

Multi-tenant environments

Al and traditional workloads

East-west traffic visibility and control







Software to unlock productivity



Infrastructure to power Al

Security for AI, AI for security



Data to drive insights and context



Services to accelerate the value of your investments

Cisco is bringing these together to make your enterprise Al journey easier

Resources to learn more





Cisco Compute

View on cisco.com/go/ucs





AI-Ready Infrastructure

View on cisco.com





Isovalent Enterprise Platform

Visit Isovalent.com (now part of Cisco)





Cisco Compute YouTube channel

View on <u>youtube.com</u>





Blogs

Visit blogs.cisco.com/datacenter





Online community

Visit the Data Center and Cloud online community

CISCO Connect

Thank you

