

Red Hat Summit

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Cisco e Red Hat: una infrastruttura sostenibile e sicura per applicazioni ibride

Stefano Gioia , Technical Solution Architect, Cisco





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- A guide to integrating Red Hat OpenStack with Cisco ACI
- Cisco Validated Designs for Simplified Al Infrastructure









"Building on a decade of collaboration, Cisco and Red Hat are working together to help organizations realize the value of Al through improved operational efficiencies, increased productivity and faster time to market.

Cisco's Al-focused Cisco Validated Design can help simplify, accelerate, and scale Al deployments using Red Hat OpenShift Al to provide data scientists with the ability to quickly develop, test, and deploy models across the hybrid cloud."

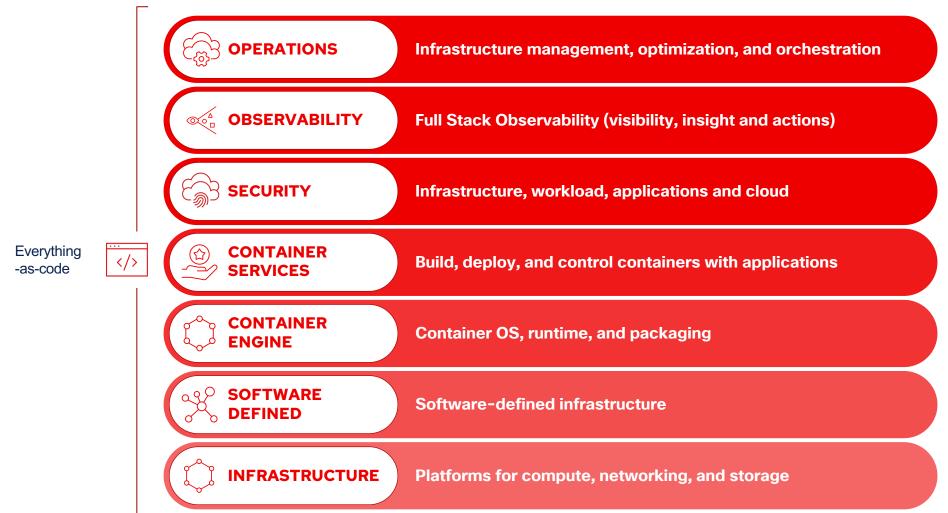
-Steven Huels, General Manager, Artificial Intelligence Business, Red Hat.







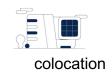
Architecture & Solution Components

















Architecture & Solution Components



Consistent cloud-native experience across edge, data center, and the cloud

Run traditional or new applications with containers on bare metal or virtual machines using the industry's leading blade architecture.

Optimized for AI/ML, accelerated VDI, and big data applications

SDN storage with local NVMe or external







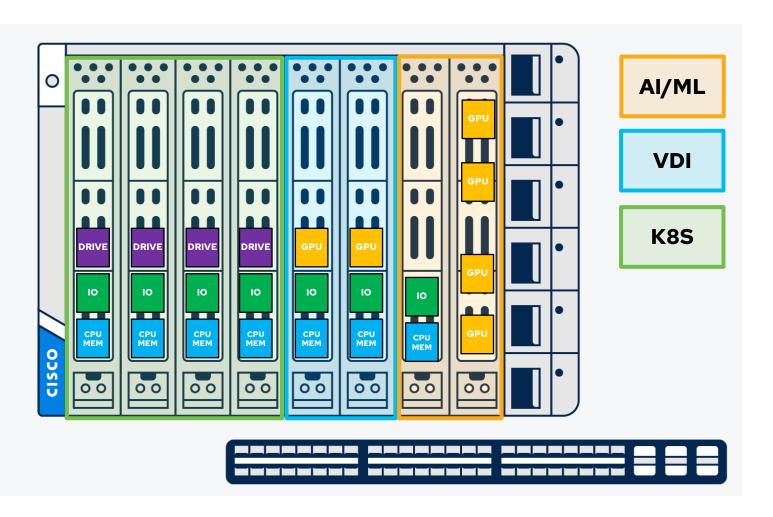






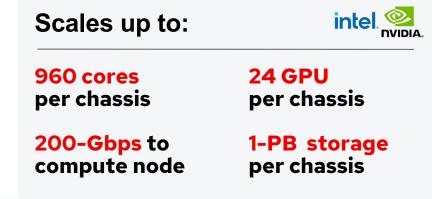


Reduce complexity with a flexible, modular architecture...



Production-ready Kubernetes platform

Cisco UCS® X-Series platform engineered for future connectivity innovations via a simple UCS X-Fabric module upgrade whenever technology is ready

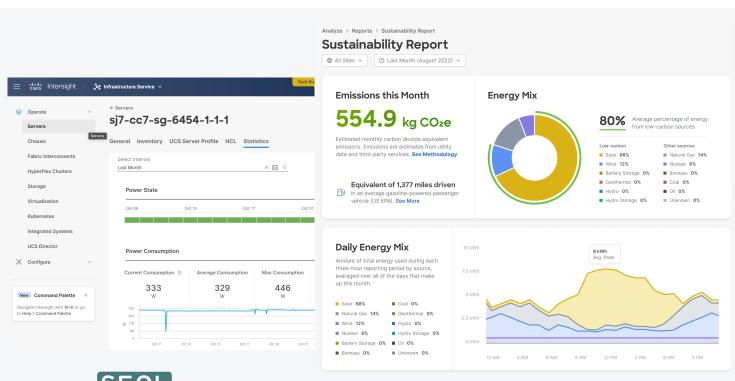








Reduce complexity with a flexible, modular architecture that helps lower costs and emission



Winner for innovative and impactful products that are literally "purpose-built" for a sustainable future

Sustainable by design



Sustainable packaging

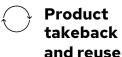


Efficient Components



Recycled materials

Sustainable through product lifecycle





Supply chain sustainability

Consolidation could result in:



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31% reduction in power consumption

27% reduction in recurring software costs

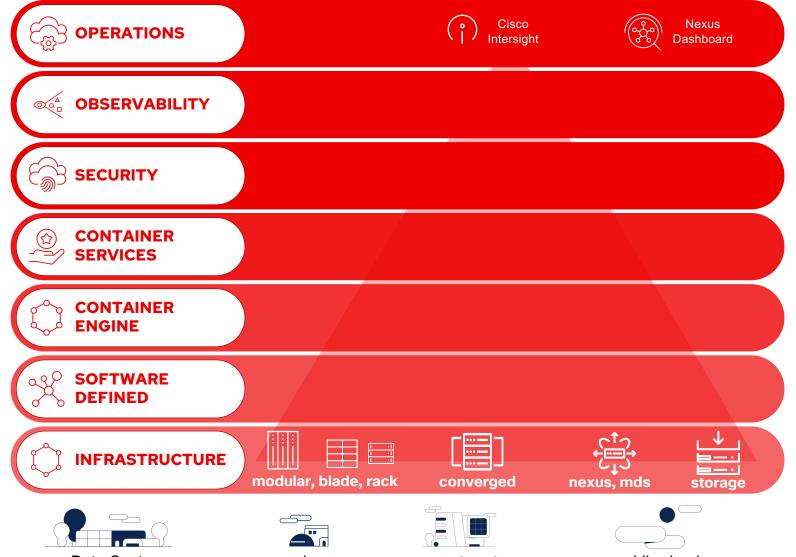
39% reduction in hardware maintenance cost







Architecture & Solution Components



Deploy and configure infrastructure in minutes

Automated advisories and continuous risk mitigation

Orchestrate workflows, APIs, and SDKs for day 0 -N operations

Future-proof with high performance compute, network, and storage







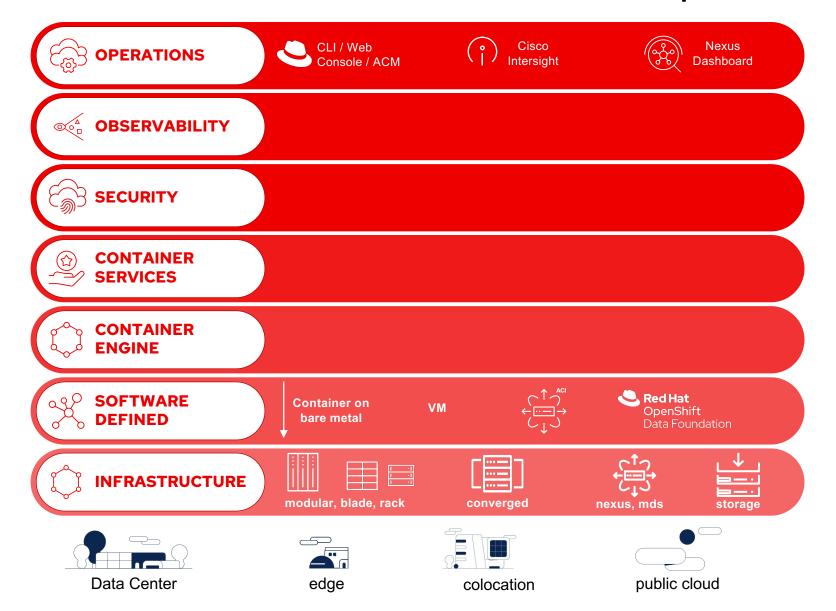








Architecture & Solution Components



Secure multi-tenancy

Software-defined storage optimized for containers

Automated connectivity and integration

Containers can run on bare metal, in virtual machines (VMs), or alongside VMs

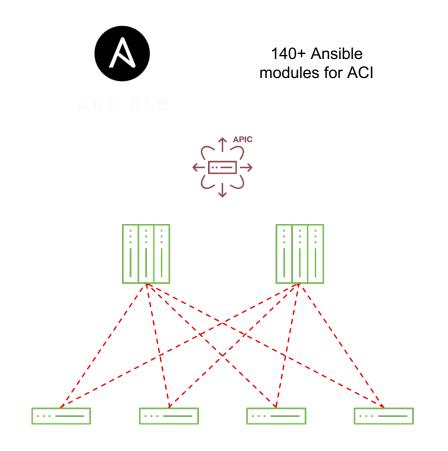






Red Hat Ansible with Cisco ACI

An infrastructure-as-code practice



Automate fabrics end-to-end with Ansible

Comprehensive coverage of the ACI REST API with a common configuration management language

Leverage ACI's object model and single configuration API for 100s of Nexus 9000s

ACI as an on-prem anchor for hybrid cloud

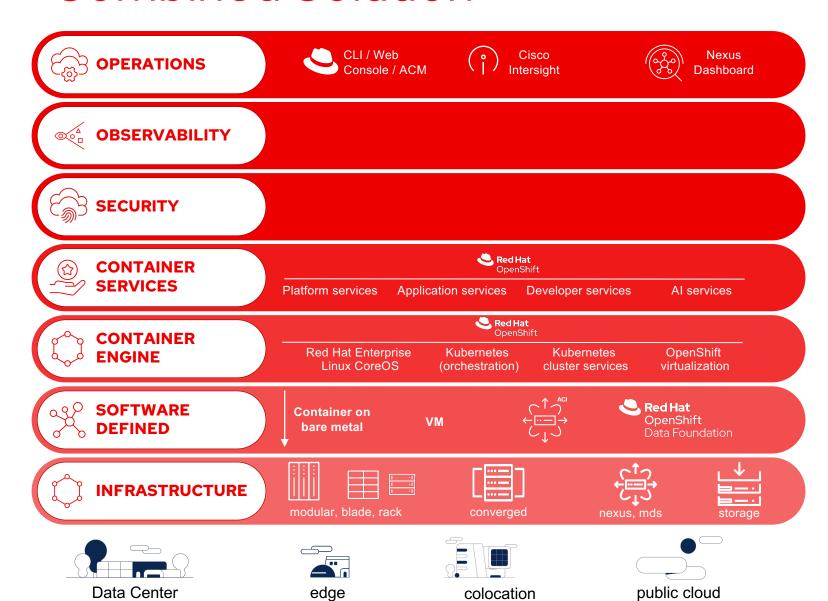
Certified by both RedHat and Cisco Cloud Networking BU







Combined Solution

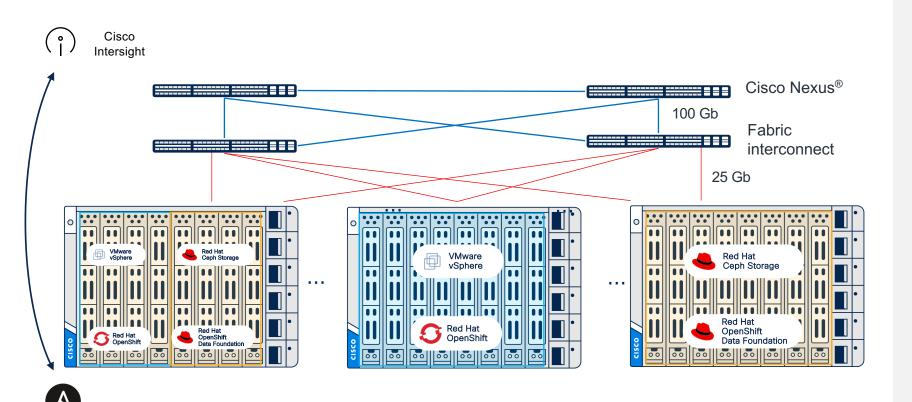








UCS X-Series CVD with OpenShift and OpenShift Data Foundation



Complete solution in just 7RU with all the power you need

Quickly deploy and manage through Cisco Intersight and Ansible

Validated architecture could be replicated to deploy additional Cisco UCS X-Series chassis containing only compute nodes, or storage nodes, or a mix of both.

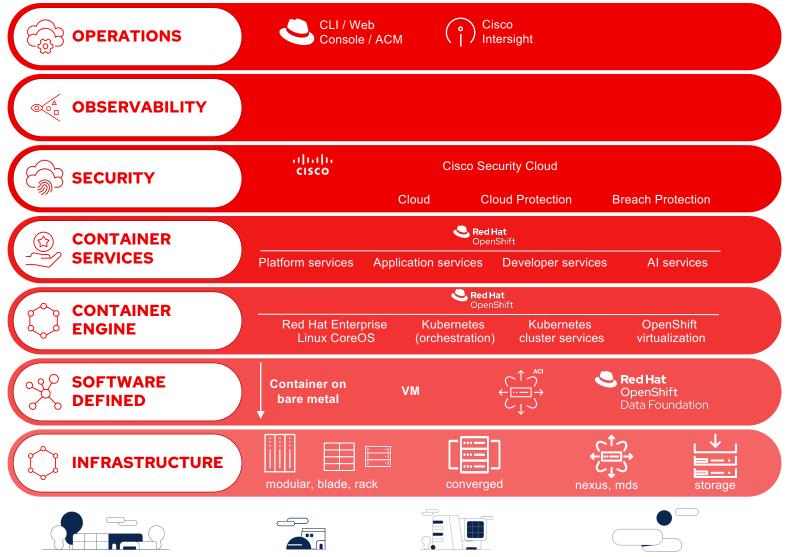
Solution available as Cisco Validated Design and on GitHub







Combined Solution



Protect every imaginable application workload - on-prem and in the cloud

Provides CNAPP protection to multi-cloud workloads using graph-based context

Discover and protect all your cloud assets

Zero-trust protection for hybrid-cloud workloads utilizing machine-driven policy lifecycle automation









Cisco Cloud Application Security



Prioritize and Remediate:

- Full Development Lifecycle
- Governance Policies
- Infrastructure as Code



Cloud Security
Posture
Management

Automate and Simplify:

- Compliance Monitoring
- Resource Management



Cloud Workload Protection

Continuous Risk Management:

- Virtual Machines
- Containers
- Serverless



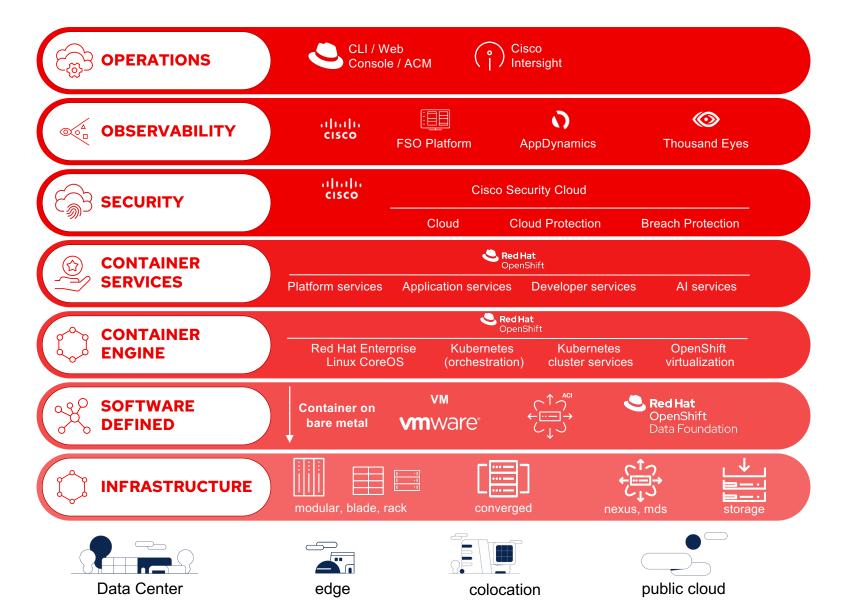
App + API Security

Assess and Monitor:

- Internal & External APIs
- API Tokens



Combined Solution



Cisco FSO provides real-time visibility, insights, and recommended actions enriched with business context

Bring the data that matters to your business and see it in a single, live UI

Correlate telemetry (oTel) from across domains that impact your business







Full Stack Observability



Understand hybrid app performance

Understand modern app performance

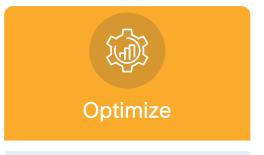
See how network and app performance impact customers

Uncover gaps in network visibility



Understand where hybrid apps are vulnerable

Understand modern app performance



See how resources are allocated

Understand how to optimize costs

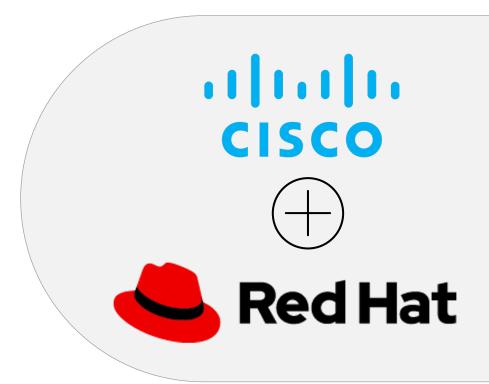






Summary

- The Cisco Validated Design (CVD) solution helps organizations simplify the deployment and management of their container infrastructure.
- A rich collection of Ansible automation playbook managed and supported by Cisco:
 - Cloud and on-prem networking
 - Compute
- Sustainable and modular infrastructure to support any workload, managed by Intersight
- Future-proof platform architecture with simplified operations









Cisco + Red Hat deliver measurable business value









Cisco Validated Design



Cisco ACI and Openshift integration: APIC Containers Plug-in



Cisco ACI and OpenStack integration: APIC OpensStack Plug-in



FlexPod Datacenter with Red Hat OpenShift Container Platform and NetApp Astra Design Guide



FlashStack for Cloud Native with Cisco Intersight, Red Hat OpenShift, and Portworx Enterprise Design









Cisco Validated Design



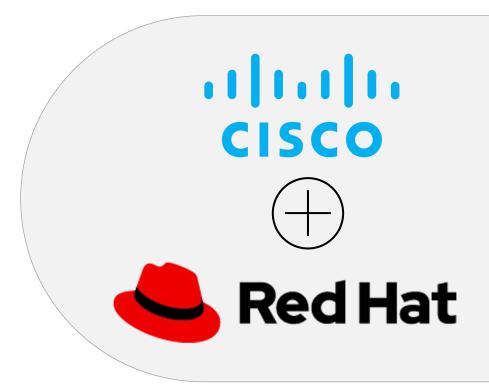
Red Hat OpenShift Container
Platform with OpenShift Data
Foundation on Cisco UCS X-Series



Automation for Hybrid and Multicloud from Cisco and Red Hat White Paper



Data Center Automation Solution from Cisco and Red Hat Ansible White Paper











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Q&A?

clsco





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Grazie!

clsco

