

## Red Hat Summit

# Connect







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

Fabio di Niro 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



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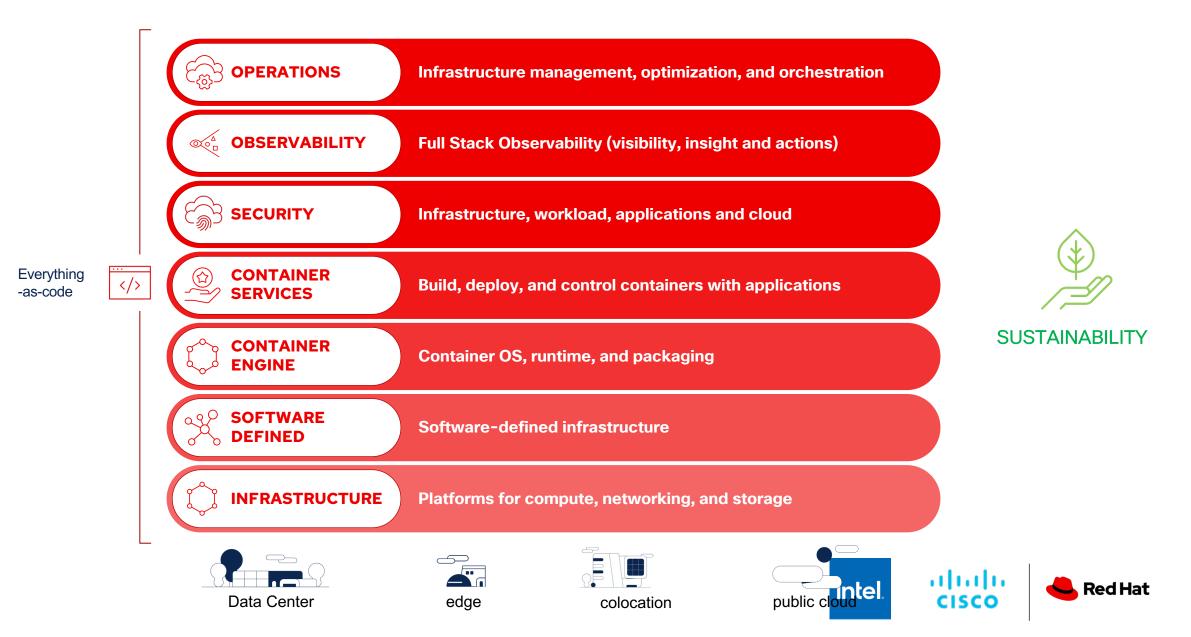
"Building on a decade of collaboration, Cisco and Red Hat are working together to help organizations realize the value of AI through improved operational efficiencies, increased productivity and faster time to market.

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

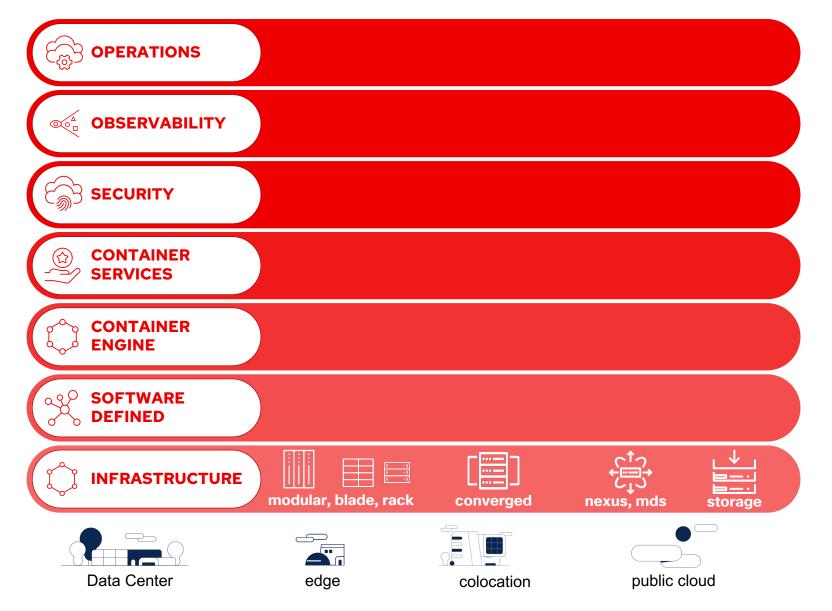
–Steven Huels, General Manager, Artificial Intelligence Business, Red Hat.



## 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**,

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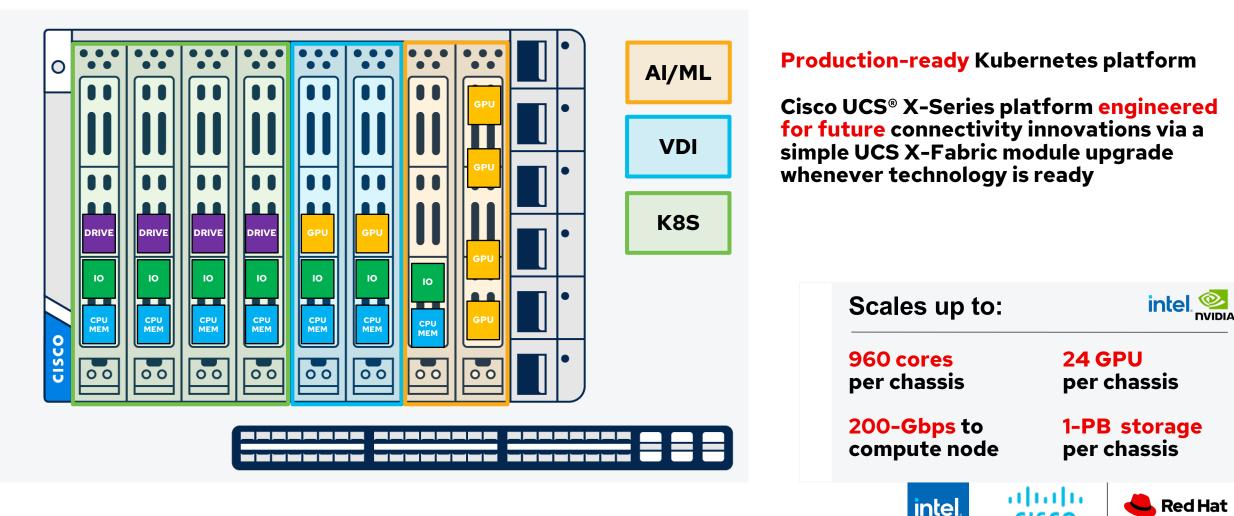
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accelerated VDI, and big data applications

SDN storage with local NVMe or external

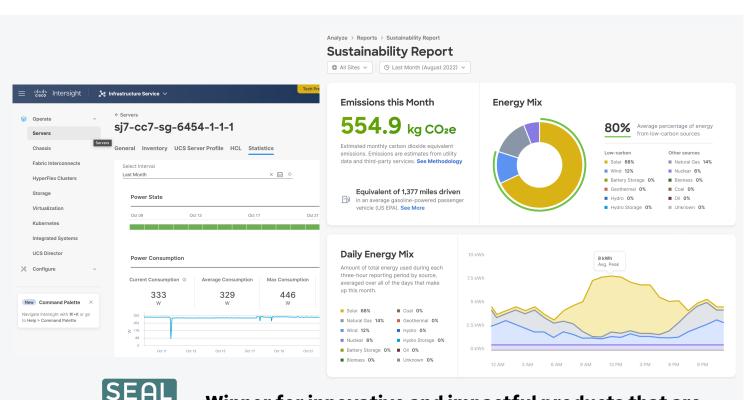
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#### Reduce complexity with a flexible, modular architecture...



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

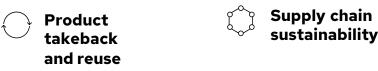


Winner for innovative and impactful products that are literally "purpose-built" for a sustainable future

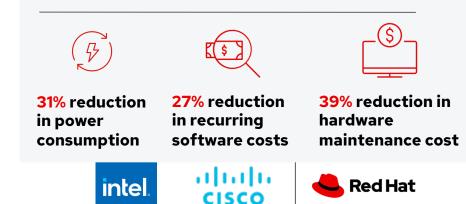
#### Sustainable by design

Sustainable packaging Components Trackaging

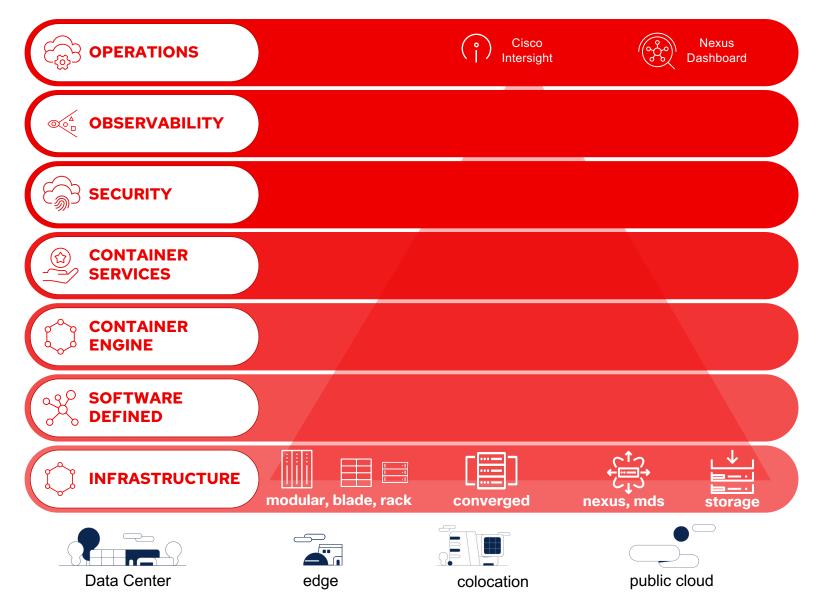
#### Sustainable through product lifecycle



#### **Consolidation could result in:**



## 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

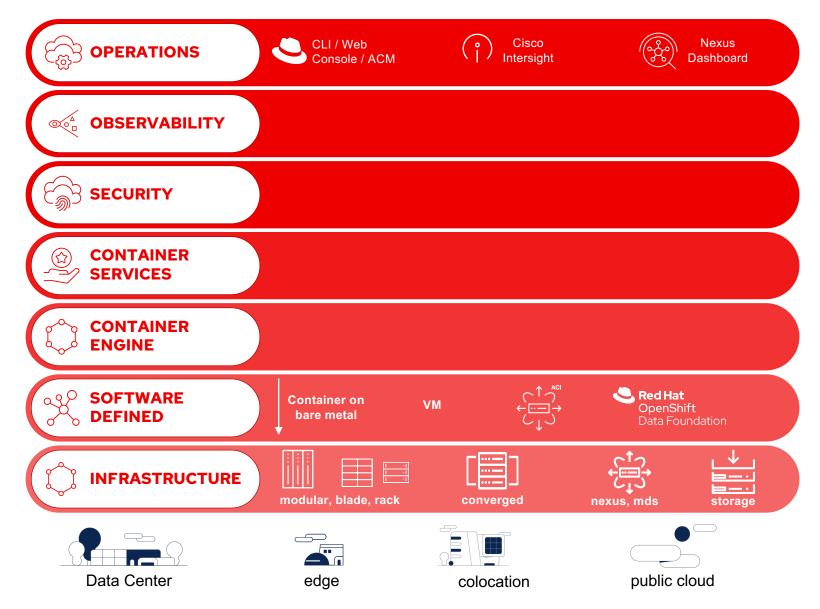
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## Architecture & Solution Components



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

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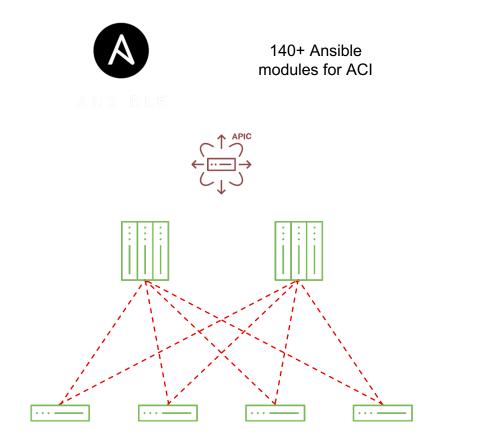
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## Red Hat Ansible with Cisco ACI

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

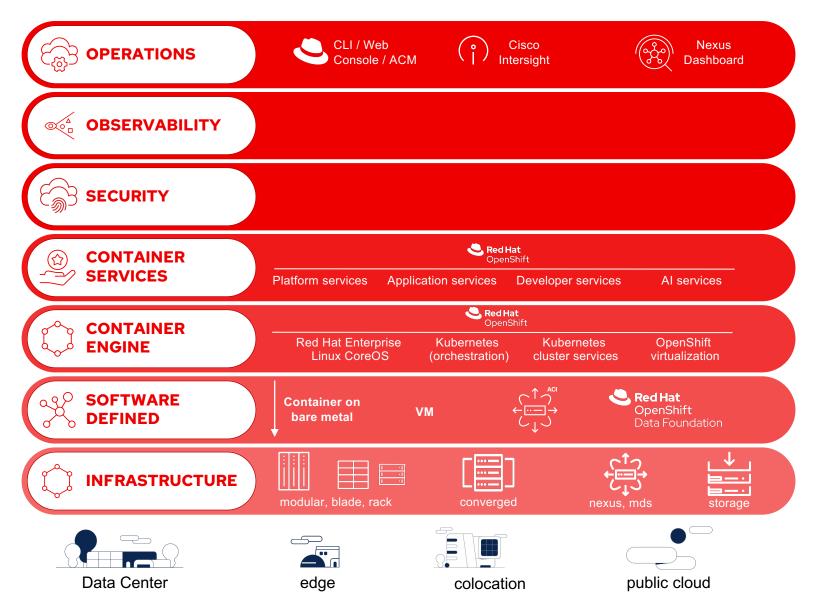
Leverage ACI's object model and single configuration API for 100s of Nexus 9000s

ACI as an on-prem anchor for hybrid cloud

Certified by both RedHat and Cisco Cloud Networking BU



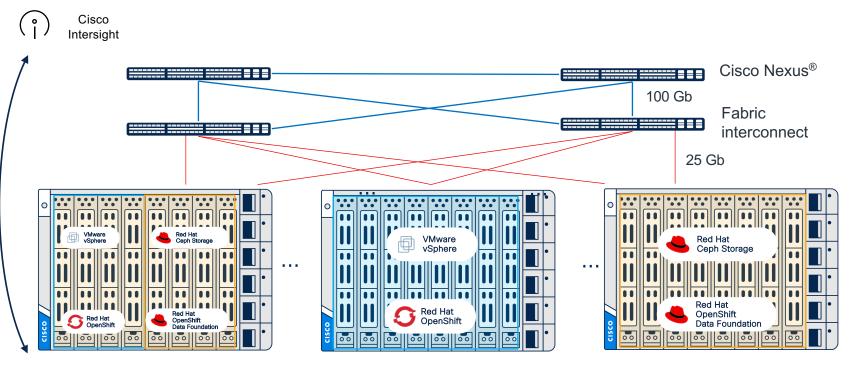
#### **Combined Solution**







# 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

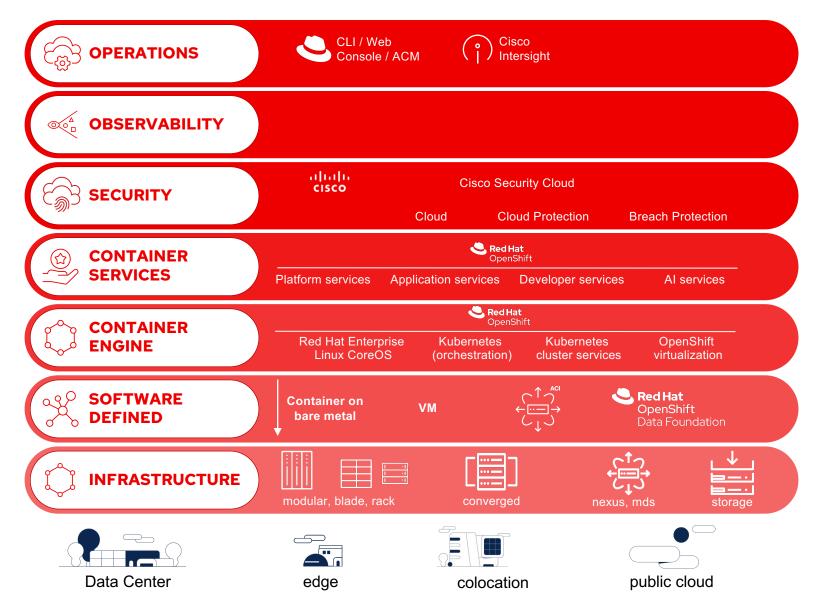
Validated architecture could be replicated to deploy additional Cisco UCS X-Series chassis containing only compute nodes, or storage nodes, or a mix of both.

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

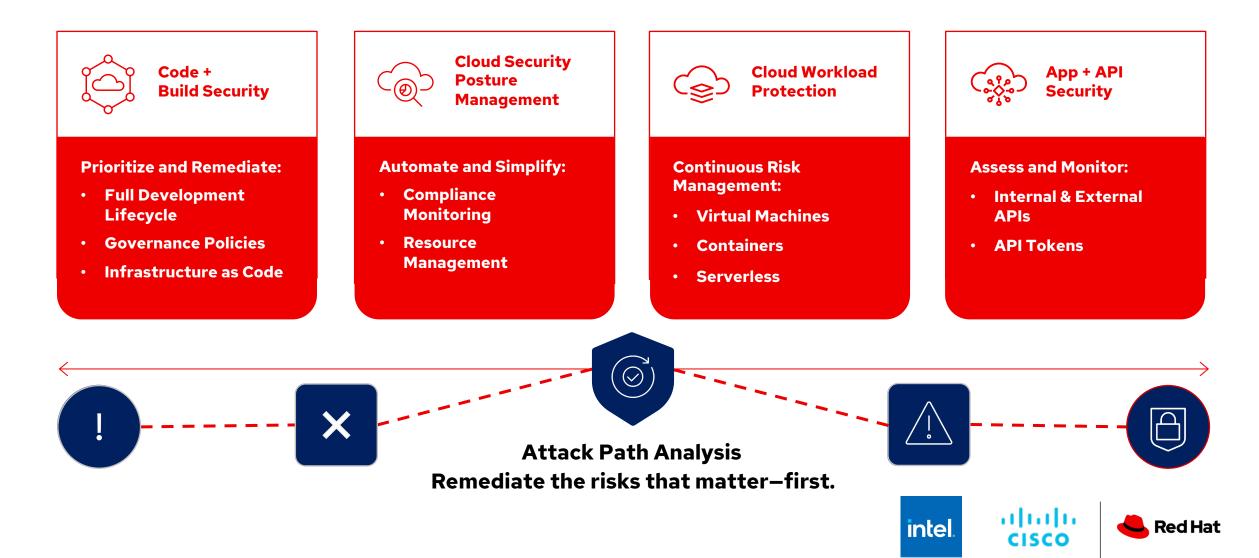
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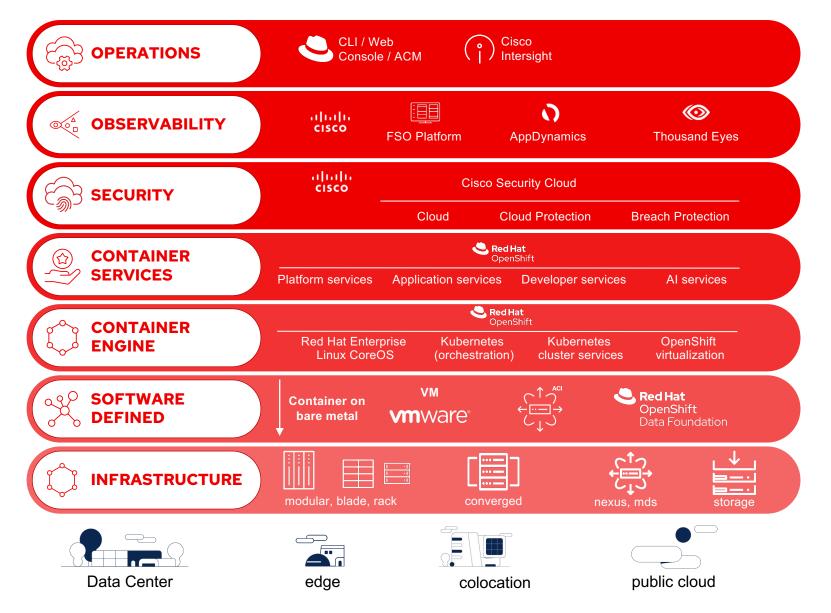
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#### **Cisco Cloud Application Security**



#### **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

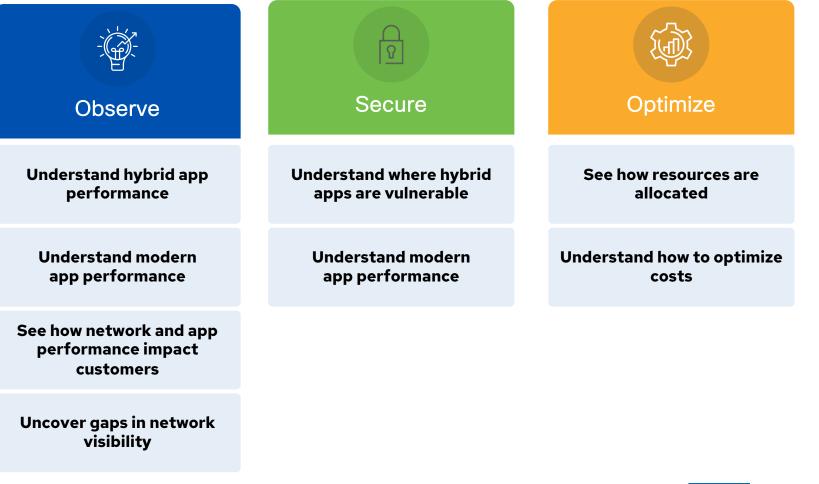
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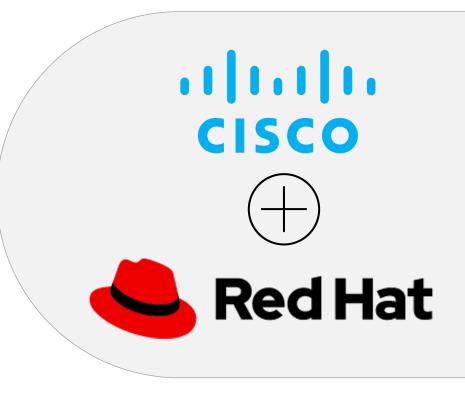
#### Full Stack Observability





# 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

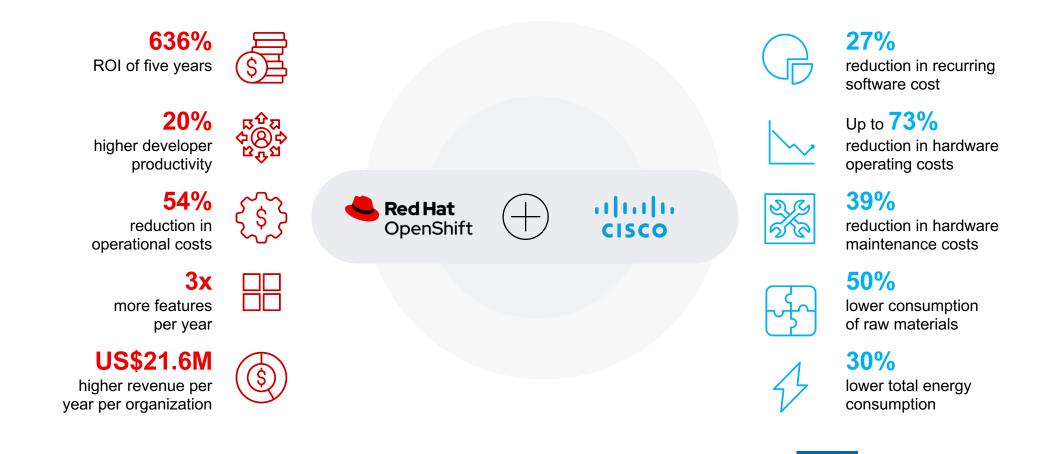


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#### Cisco + Red Hat deliver measurable business value



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# 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 Red Hat



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





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## **Q&A?**

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# **Grazie!**

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