Modernize your data center

Cisco's blueprint for success

December 3, 2024

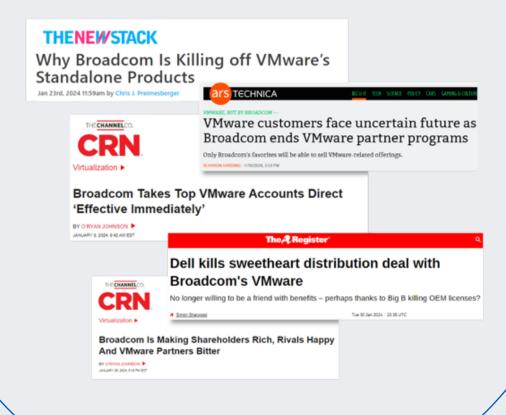
Justin Blinn - DC Solutions Engineer



Compute

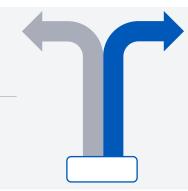


Server virtualization market disruption



The crossroads...

Stay with status quo



Explore opportunities for improvement

Asking:



Is our virtualization strategy supporting our goals?



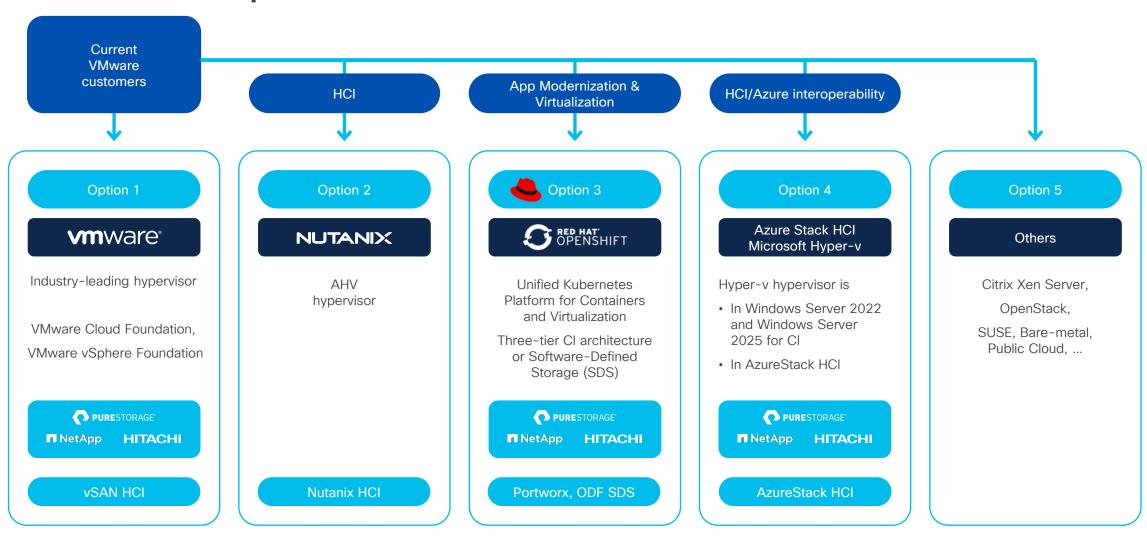
Can we reduce costs by moving workloads to bare metal?



Does our containerization strategy support modern applications and new Al workloads?



Does our Al strategy complement our infrastructure and tooling or create more cost and complexity?



Cisco Intersight – Cloud-Based Management As-a-Service Platform

Centralized Management
Global Policies

Intuitive Experience Enhanced Support Proactive Guidance Secure and Extensible

SaaS Delivered



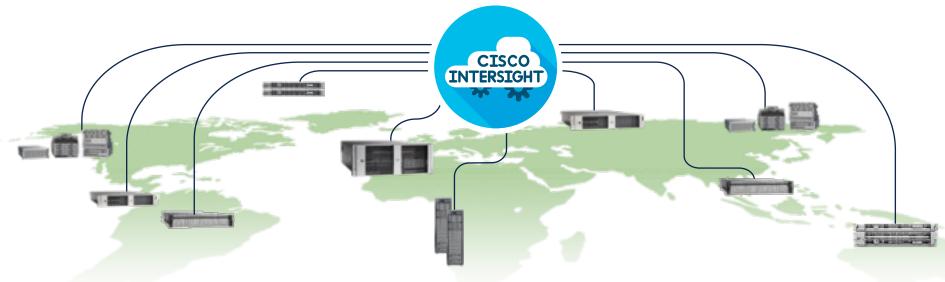
Comprehensive Automation
Single Pane of Glass













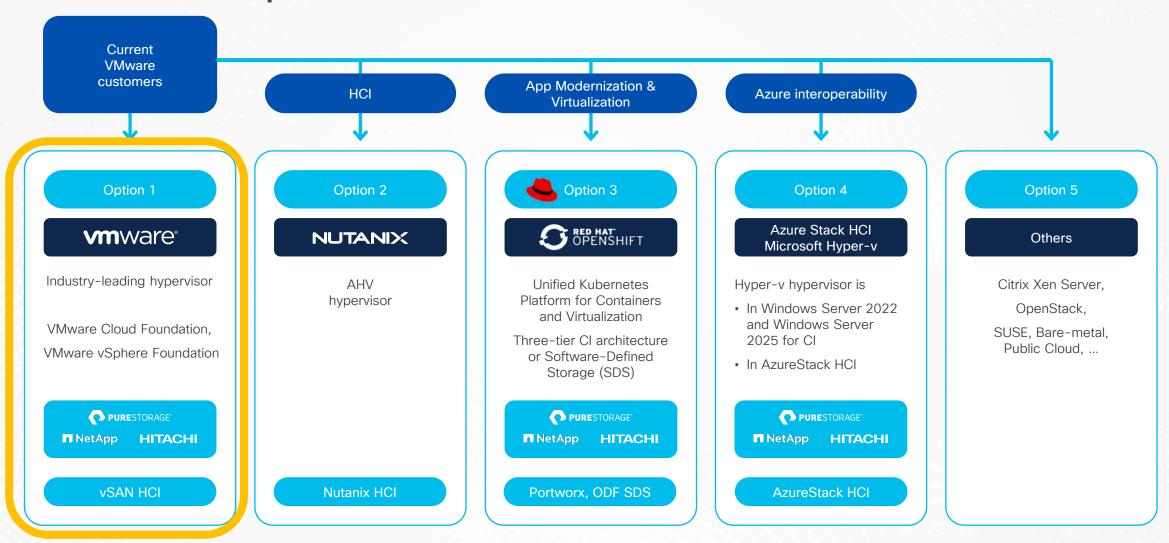
Free customers from care and feeding of management tools and eliminate upgrade dependencies



Simplify management across technologies and geography



Rapid development, delivery and customer feedback



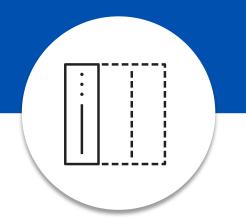
Cisco & VMware



Deliver VMware on Cisco Converged and Hyperconverged infrastructure assured by Cisco validated designs.



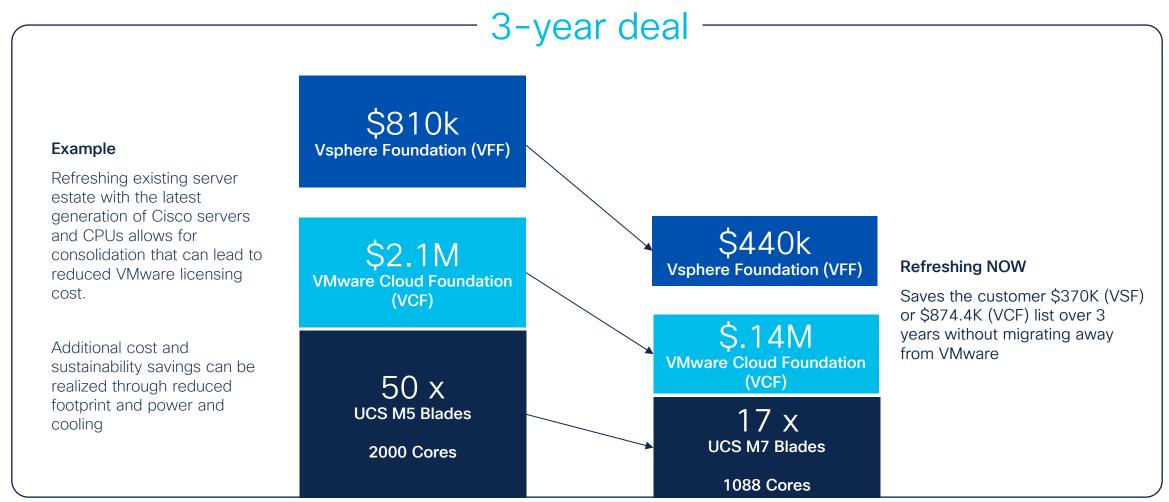
Manage and optimize the VMware Software Defined data center with VMware Cloud Foundation deployed upon Cisco UCS series



Optimize VMware licensing costs through server refresh and consolidation

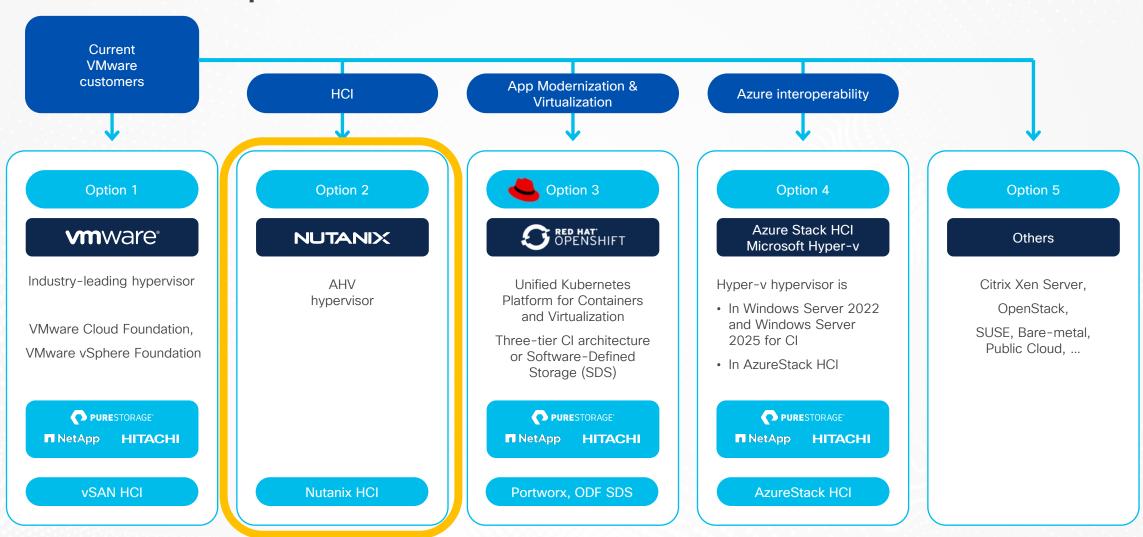
Server Refresh to Optimize VMware

Reduce VMware licensing cost on latest gen UCS



Source: UCS TCO Advisor tool: https://mainstayadvisor.com/signin.aspx





Cisco + Nutanix Partnership

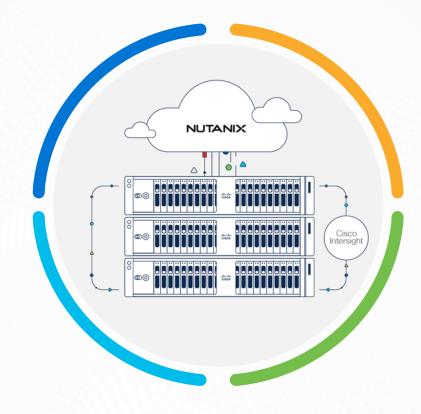
Shared Vision | Shared Intent | Cohesive Roadmap

Strategy

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

Go to market

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



Engineering

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

Support

A joint augmented support model built for information-sharing to ensure our customers' success

Operate at scale

More choice and flexibility

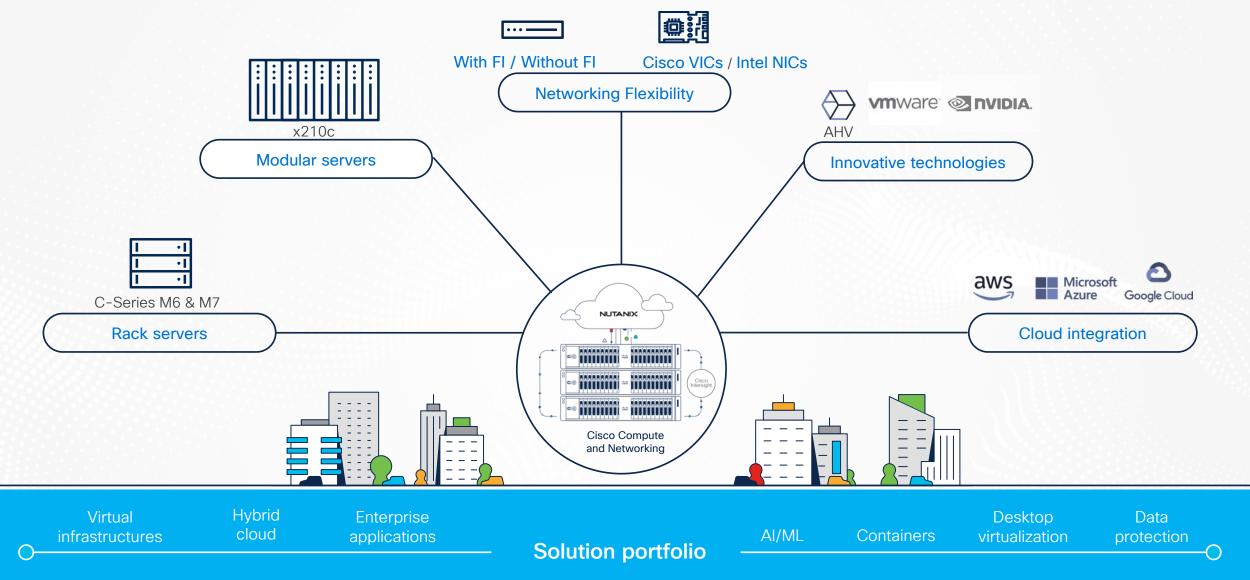
End-to-end security

Comprehensive support

Easy to buy



Accelerate Transformation with More Choice

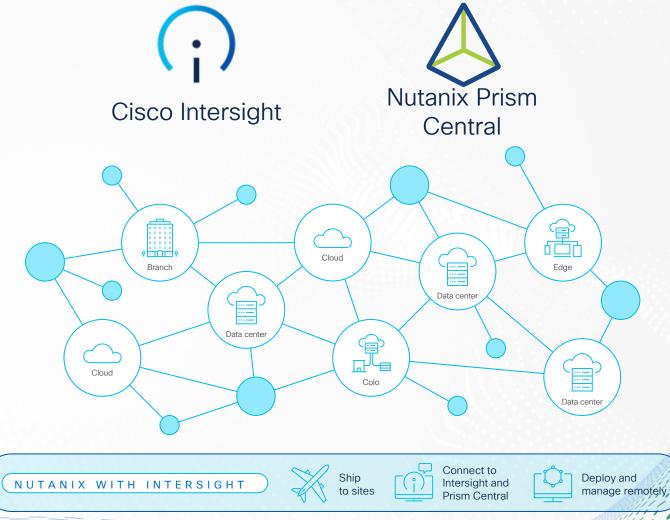


Simplify and Scale with cloud operations

IT Operations Simplified

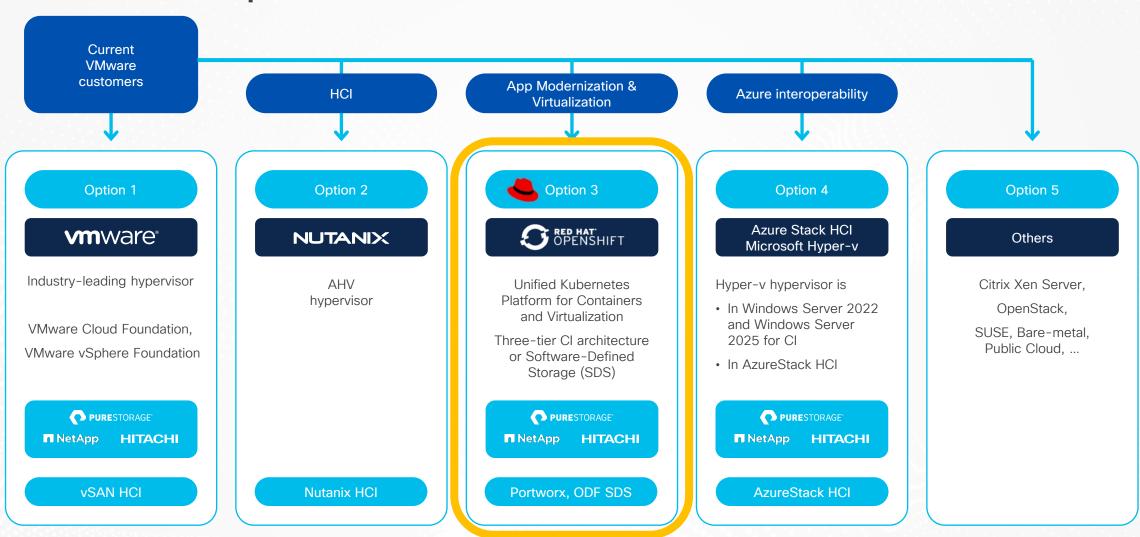
Unified operations across your distributed environment with Cisco Intersight and Nutanix Prism Central

- Deploy, configure and maintain infrastructure in minutes – at scale – anytime – anywhere
- Unified storage and cluster management with Nutanix Prism Central
- Connected TAC
- Proactive Security advisories, field notices and RMAs.
- Augmented support and resiliency capabilities keep systems up and running at global scale



Capabilities

vm ware*		NUTANIX
VMC	Hybrid Cloud	Nutanix Cloud Clusters (NC2)
Horizon	End User Computing/Virtual Desktops	NCP: Citrix, Frame, Horizon
Data Services Manager	Database Services	Nutanix Databases Service
Aria Migration/HCX	App Mobility/Migration	Move
Aria Cost by CloudHealth	Cost/Governance	Nutanix Cloud Management (NCM)
Aria Automation (vRA)	Application Automation/Orchestration/Self Service	
Aria Operations (vROPS)	Advanced Intelligent Operations	
Aria Insights	Data Analytics	Nutanix Unified Storage (NUS)
vSAN File Services	Storage Services	
NSX	Micro Segmentation/App Firewalling	Nutanix Cloud Infrastructure (NCI)
	Network Overlay	
Site Recovery Manager	Advanced Replication and DR	
Tanzu Kubernetes Grid	Kubernetes	
vSAN	Storage Operating System	
ESXi	Hypervisor	



Cisco + Red Hat Partnership

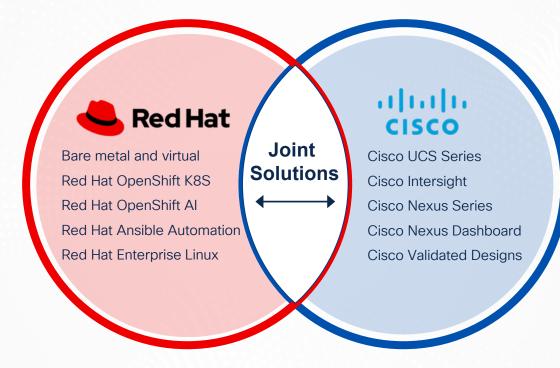
Al, Virtualization and Kubernetes across on-premise and cloud

Open Cloud Infrastructure

platform built on open-source innovation

Accelerated time to value

with turnkey experience and integrated automation For VMs and C



Simplified Operations and Support

with Cloud managed infrastructure and Cisco Solution Support across Red Hat on converged infrastructure stacks

Reduced Risk

with Cisco Validated Designs, delivering tested architectures for standardized, repeatable deployments.

Operate across hybrid multicloud

More choice and flexibility

20+ Cisco Validated Designs

Consistent app dev experience

Increased sustainability

Cisco & Red Hat Solutions

Backed by Cisco Validated Designs and Solution Support

Application Platform Modernization



Helping our customer with Cisco Validated Designs that provide alternative virtualization technologies as they struggle with the current disruption in the virtualization marketplace

Al Ready Infrastructure



Al Ready

Providing Al Ready Infrastructure based on Cisco Validate Designs allowing our customers to quickly and confidently order, build and deploy full stack Al solutions.

Edge Workload Platforms



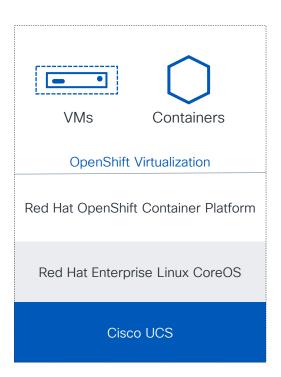
Harness the power of edge workloads with the new purposebuilt edge infrastructure running the industry leading container platform. All managed at scale from the cloud

FUTURE

Containers + virtualization

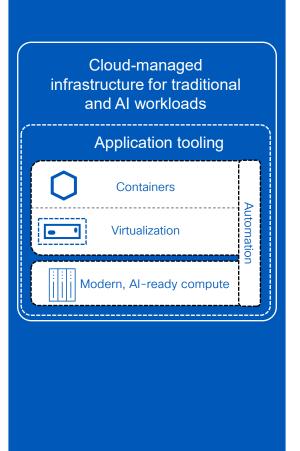
Red Hat OpenShift and OpenShift Virtualization

A unified solution for running virtual machines and containers



- Unified platform
 For virtual machines and containers
- Consistent management tools, interfaces, and APIs
- Performance and stability of Linux, KVM, and gemu
- Healthy open source community the KubeVirt project is a top 10 CNCF active project, with 200+ contributing companies

- Includes Red Hat Enterprise Linux
 Guest entitlements
- Supports Microsoft Windows guests through Microsoft SVVP
- Inbound guest migration
 using Ansible Automation Platform +
 Migration Toolkit for Virtualization,
 Training, and consulting

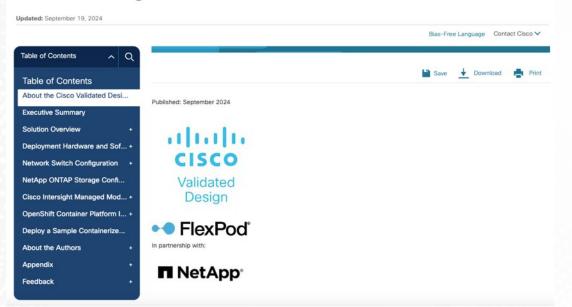




Cisco Validated Designs



FlexPod Datacenter with Red Hat OCP Bare Metal Manual Configuration with Cisco UCS X-Series Direct



Red Hat OpenShift is now supported on bare metal UCS/UCSX servers! Cisco CVD's will no longer require VMware to remove layers and simplify our solutions.

Just released:

Flexpod Datacenter with Red Hat OpenShift Bare Metal

FlexPod for Accelerated RAG Pipeline with NVIDIA NIM and Cisco Webex

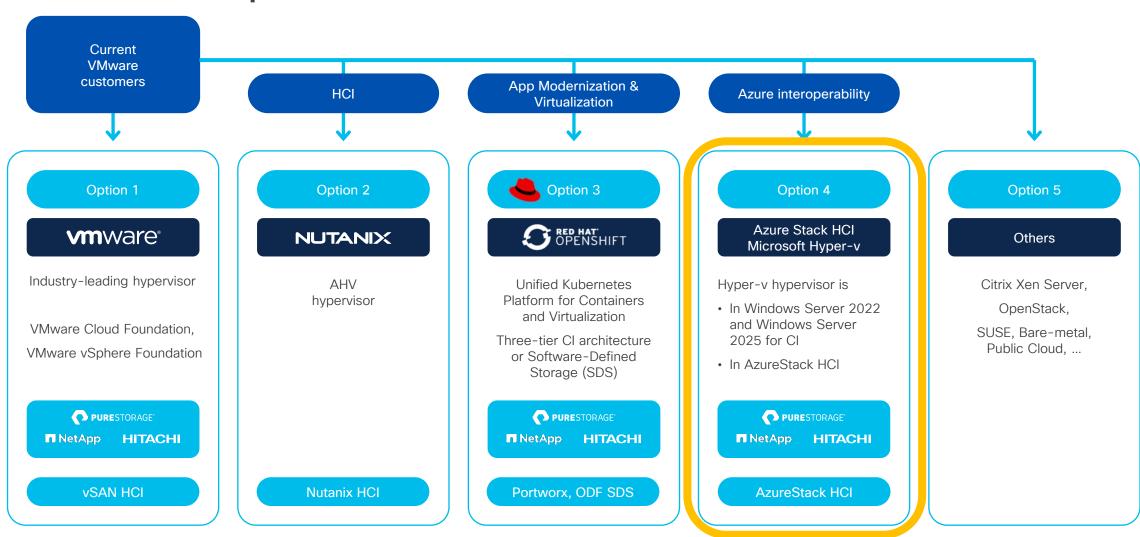
More OpenShift on bare metal CVD's coming soon:

FlexPod with OpenShift Virtualization FlexPod with OpenShift Al

FlashStack with OpenShift Virtualization FlashStack with OpenShift Al

Datacenter Cisco Validated Design Center

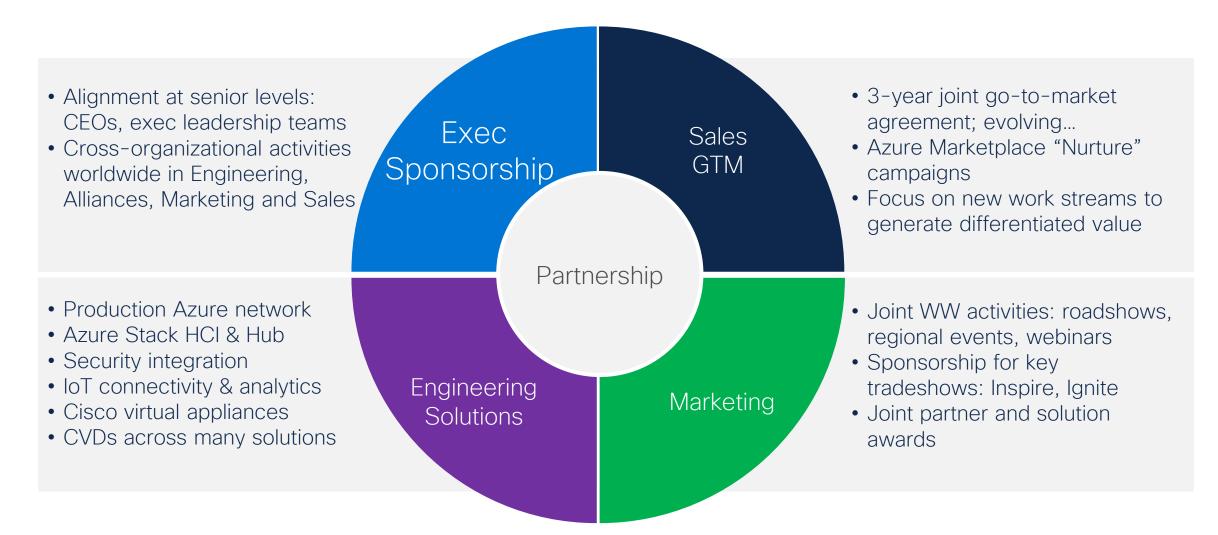




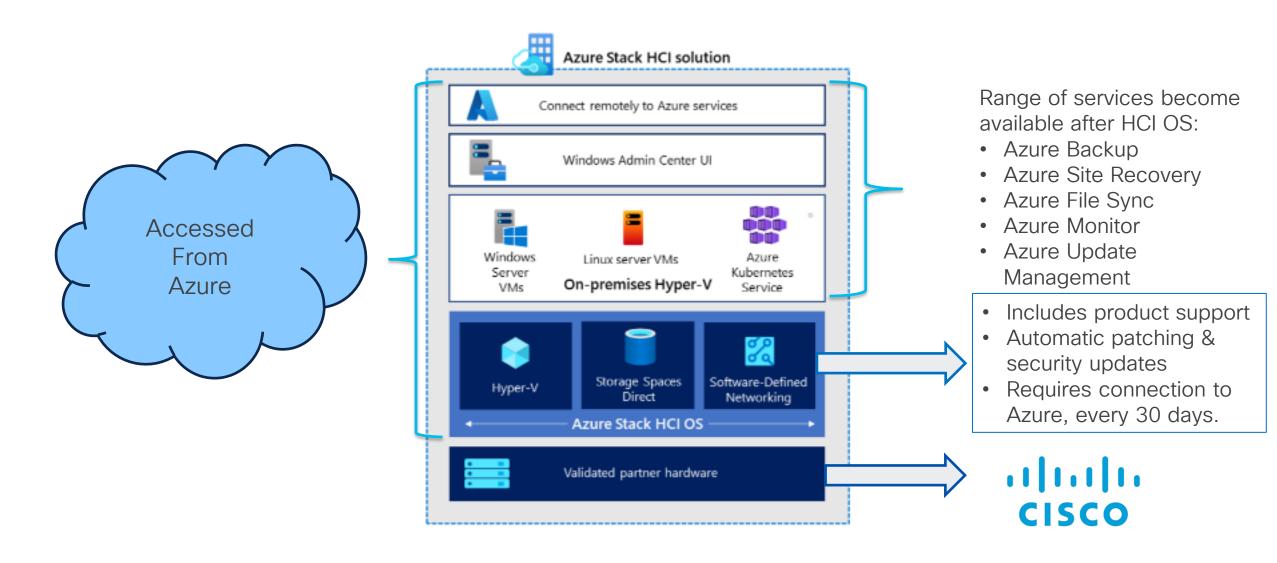
Cisco & Microsoft



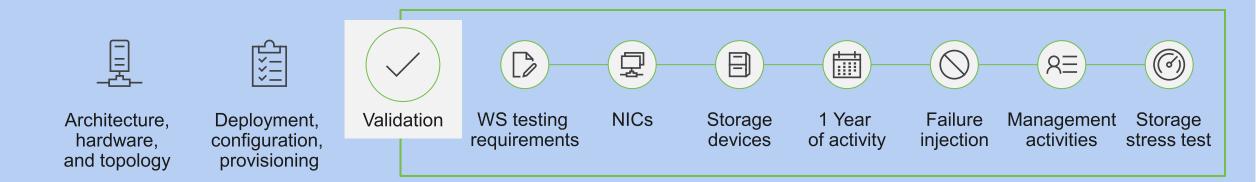




Azure Stack HCI Software Architecture



Azure Stack HCI: All Solutions Validated Microsoft Validation Kit Helps Ensure Worry-Free Solutions





Validated Solutions

- ✓ All system elements are fully tested and validated
- ✓ Systems cannot be marketed to run Azure Stack HCI without validation
- ✓ Any issues identified and addressed with HW vendor, Microsoft, Partners
- ✓ Configurations must be fully orderable
- ✓ HW vendor has to provide 5 years of product support
- ✓ HW support processes must be defined to ensure customer success
- ✓ Basic marketing/technical documents must be posted on-line
- ✓ HW vendors can apply for Microsoft logos defining optimal use cases

