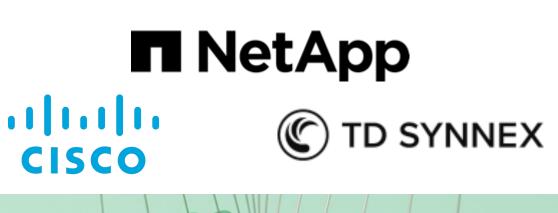
FlexPod Webinar Series

VMware

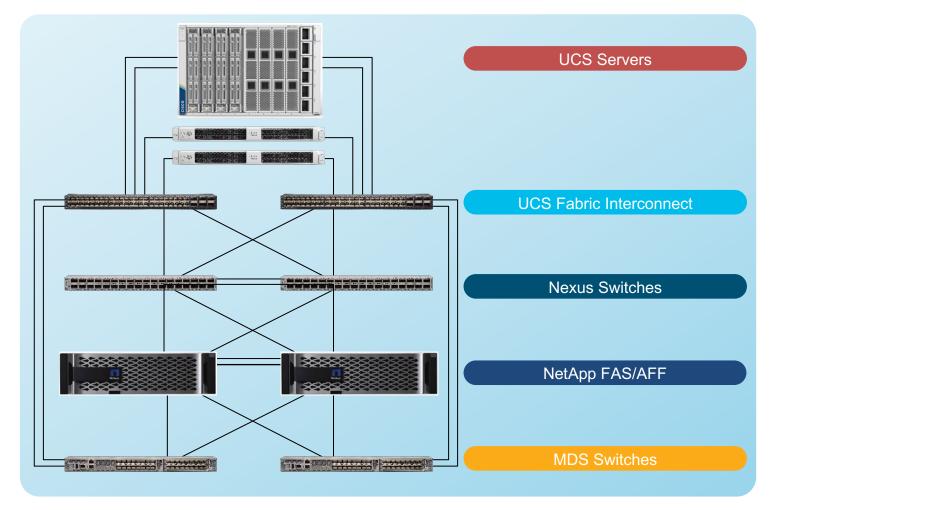




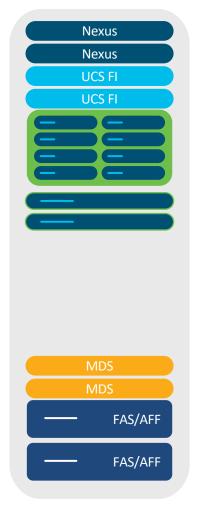
August 2023

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FlexPod Design – One Model



FlexPod

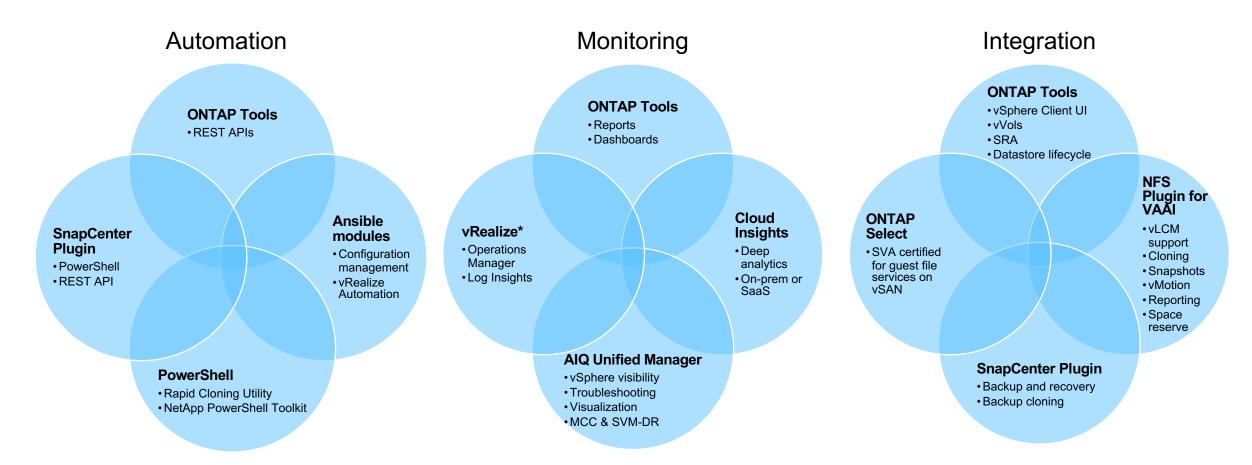


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■ NetApp vmware[•]

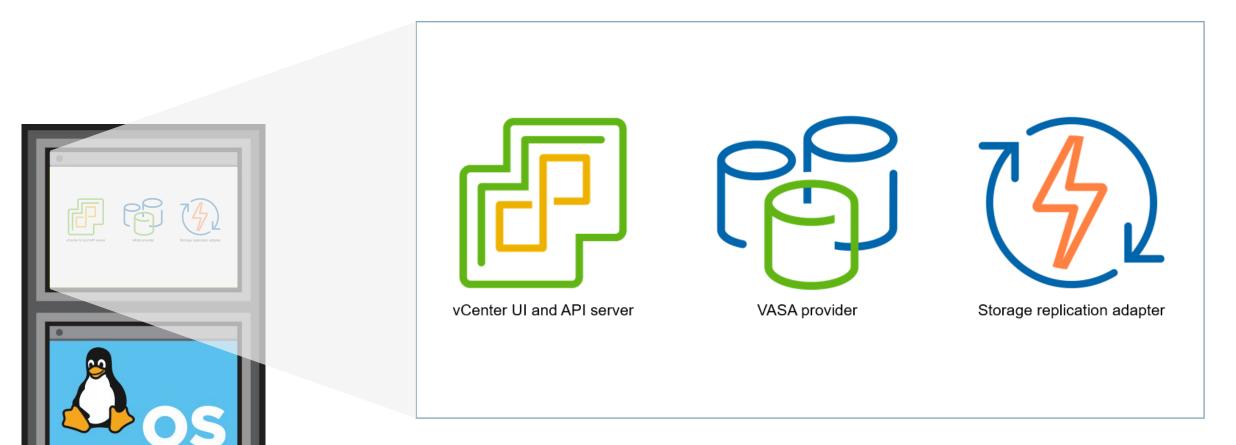


• ONTAP vRealize management and content packs available from VMware (formerly Blue Medora)

• Third-party applications offer deep ONTAP integrations, such as Cisco Intersight, Commvault Complete Backup and Recovery, Veeam Backup and Replication, and many more

NetApp ONTAP Tools for VMware vSphere

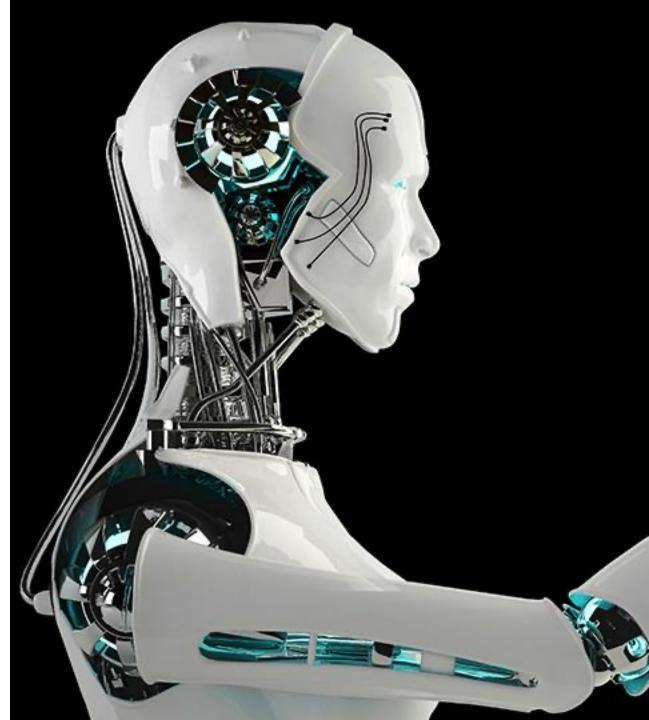
Integrating management applications into a single virtual appliance



ONTAP Tools for VMware v9.12

What's New

- vSphere 7.x & 8.0 Support
 - Validated performance and placement
 - Interop qualification
 - Virtual Storage Console support
- Increased max LUN, file, & volume size with ONTAP 9.12.1P2
 - 128TB LUN size
 - 128TB file size
 - 300TB Volume size
- NVMe-oF vVol Support
 - vSphere 8.0 required
- SnapMirror Quick Resync Support
 - enables faster resync times for Site Recovery Manager's (SRM) Reprotect and Restore operation



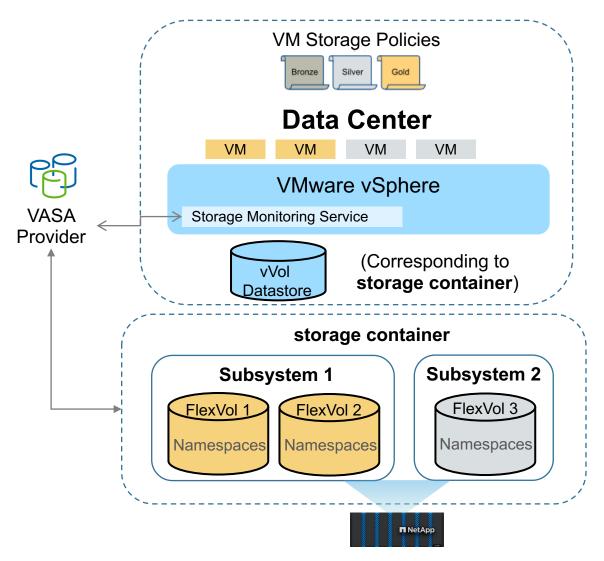
Natively integrate storage management into the vCenter UI

Storage at a glance through easy-to-understand dashboards

ONTAP tools for VMware vSphere					vCenter server_vc1.de	emo.netapp.com ~ 🔿 🗸
Getting Started Traditional Dashboard vVols Dash	hboard					
Last refreshed: 04/26/2023 17:43:00 Next refresh: 04/26/2023 18:13:00						
Overview		🔮 Datastores	3	🗗 Virtual Machine	chines 4	
Datastore capacity Datastore capacity Used: 40.92 GB Free: 116.58 GB Total: 157.50 GB	Aggregate space savings Aggregate I.28 : 1	Top 5 datastores by Space Utilized V Type All NFS VMFS nfs3 nfs1 iscsi1	High to Low ∨ 29.55% 26.02% 8.62%	Top 5 VMs by OTV1 scv-1 SiteA-vm01 vCLS-e4ee0253-58d0-499	Committed Capaci ~	High to Low ~ 9.44 GB 5.63 GB 2.87 GB 360.86 MB
0 Read IOPS		Storage Systems		ESXi Host Systems		
0 Write IOPS	C Logical space used: 65.14 GB	Clusters: 1	SVMs: 1	NFS settings: 1	MPIO settings: 1	Adapter settings: 1
0 Total IOPS	 Physical space used: 51.03 GB Space saving: 14.12 GB (21.67%) 		View all storage systems			Edit ESXi host settings

Introduction to NVMe-oF vVols

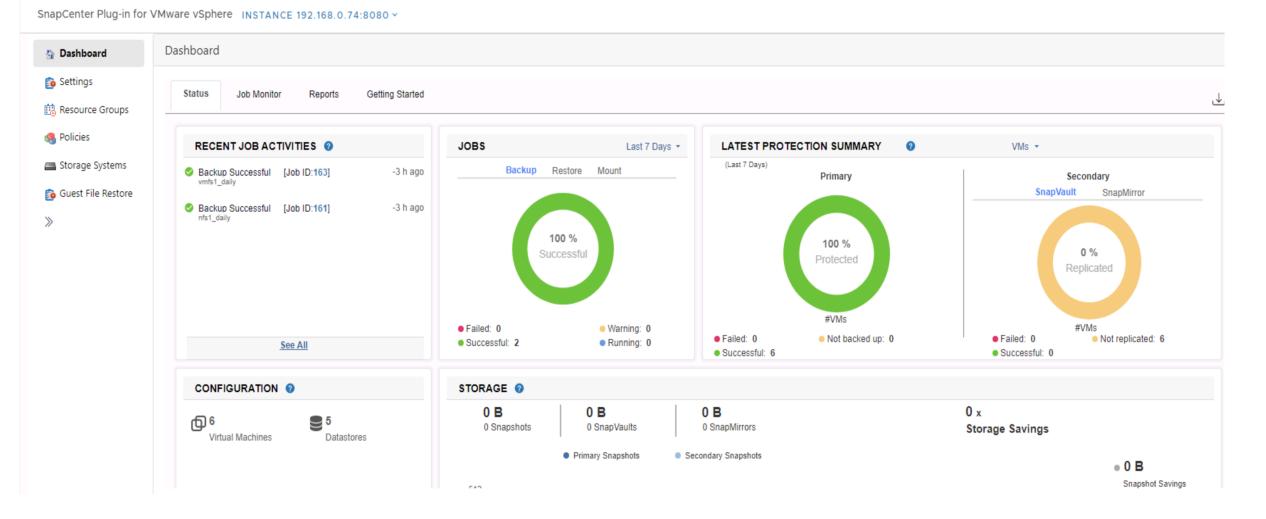
An architectural overview



- Six key components (more detail in slide notes)
 - VMware vSphere
 - ONTAP tools VASA Provider
 - vVols datastore
 - Storage container
 - Virtual Protocol Endpoint (vPE)
 - vVols NVMe namespaces
- Automatic end-to-end configuration shifts complexity away from the admin and into software
- Eliminate noisy neighbor issues and let SPBM automate QoS policy configuration
- Not constrained by normal VMFS limits

SnapCenter for VMware

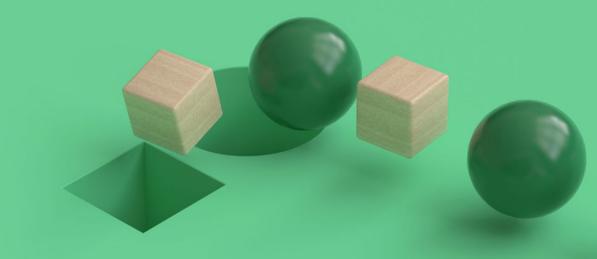
Storage snapshots at a glance through easy-to-understand dashboards



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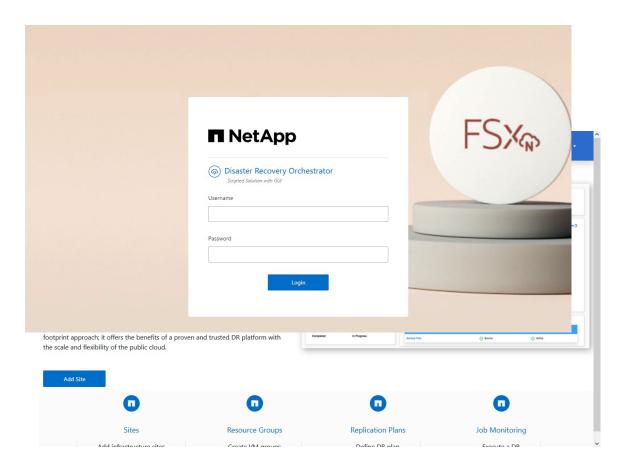
Cisco Intersight Workload Optimizer

Lower costs, automate workloads, and optimize application resources across IT



Introducing: NetApp Disaster Recovery Orchestrator (DRO)

VMC – FSxN NFS datastore

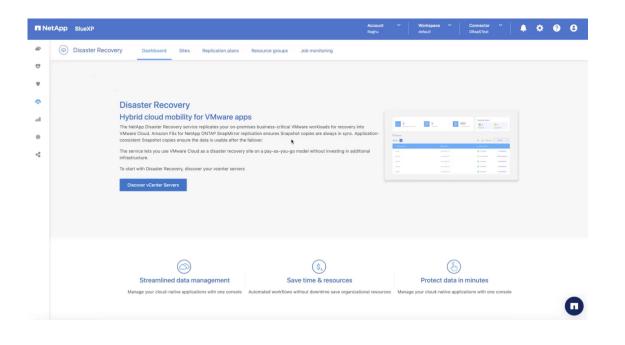




- Disaster Recovery Orchestrator
 - Scripted solution with UI that automates & orchestrates DR between on-premises vSphere ONTAP and VMC – FSxN
 - Customer managed Docker image
 - Community supported
- Features & Benefits
 - Orchestrated, on-demand DR leveraging SnapMirror for NFS datastore
 - Simplified deployment & administration
 - Recovery plan creation, VM grouping
 - Multiple, point-in-time recovery
 - Policy driven, continuous compliance checks
 - Orchestrated failover to VMC-FSxN using replicated datastore volumes
 - · Offers predictable RTO at lower cost

BlueXP Disaster Recovery Preview of Initial Offering

DR site with VMC - FSxN NFS datastore



Features and Benefits

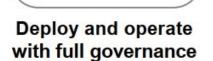
Availability

in May

- Integrated with BlueXP control plane
- Supports DR and migration use cases
- Supports VMC on AWS with FSxN as DR site
- Orchestrated, on-demand failover and failback leveraging SnapMirror for NFS datastore
- Simplified deployment & administration
- DR site management, vCenter discovery
- Resource groupings, Replication plans
- Multiple, point-in-time recovery
- Policy driven, continuous compliance health checks
- Orchestrated failover to VMC-FSxN using replicated datastore volumes
- Low RPO and RTO

AWS FSx for NetApp ONTAP Pilot

- What is the pilot program?
 - Incremental 15% discount on AWS FSxN through Oct 2024
 - Available to TD SYNNEX AWS partners
- Why AWS FSx for NetApp ONTAP?
 - Bring you storage / data protection Superpower to AWS
 - Lead the hybrid cloud conversation
 - Competitive takeout and defense opportunity
- How do I participate?
 - Already an AWS partner reach out to your AWS specialist or <u>Christopher.Arce@tdsynnex.com</u>
 - New to AWS <u>EnterpriseCloudSales@tdsynnex.com</u> for quick and easy onboarding

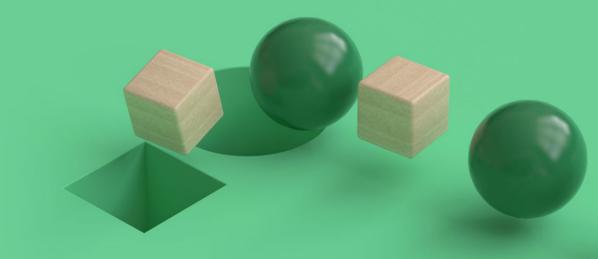






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https://www.netapp.com/hybrid-cloud/vmware/



Resources

- NetApp & VMware
- FlexPod VMware Design Guides
- <u>NetApp Lab on Demand:</u> VMware
- <u>Cisco Intersight Workload Optimizer</u>

Questions?

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