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Wir unterstützen Sie kompetent und persönlich!

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VxRail For Hybrid Cloud and

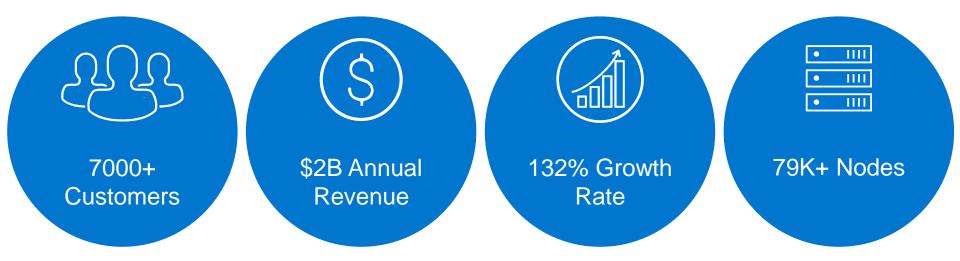
7.April 2020 Christian Stein, Adv. PSE, Global Distribution Group Christian.stein@dell.com

More



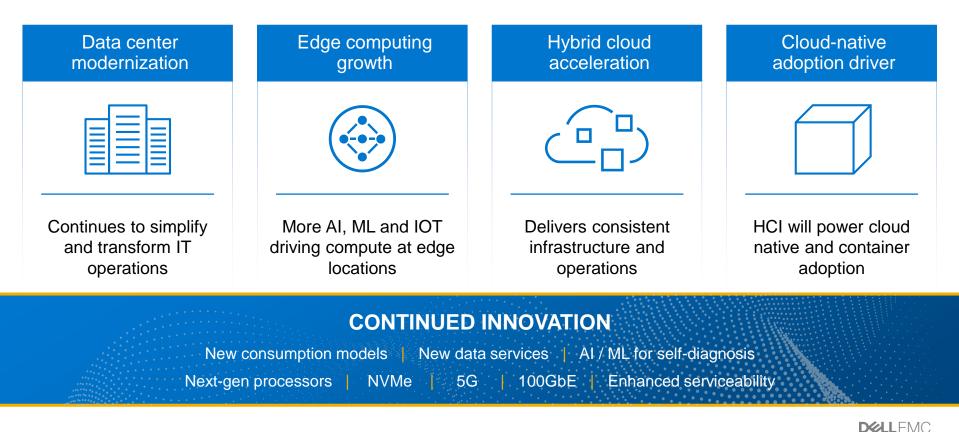
VxRail By the Numbers

Fastest Growing HCI System



1. For Q4 2019 year-over-year among TOP 10 product brands.

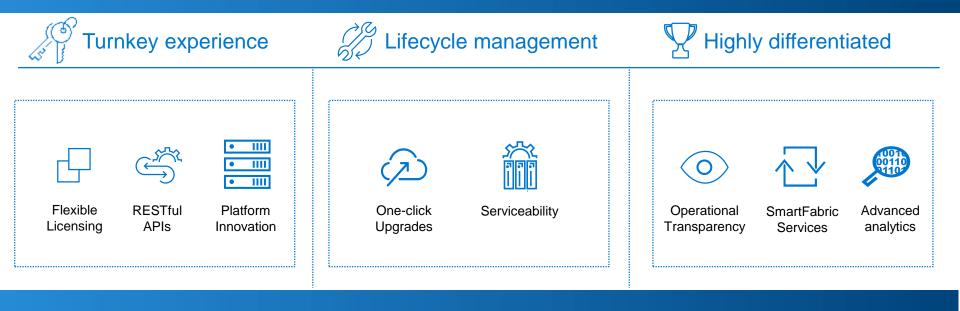
HCI Trends in 2019 – continue 2020



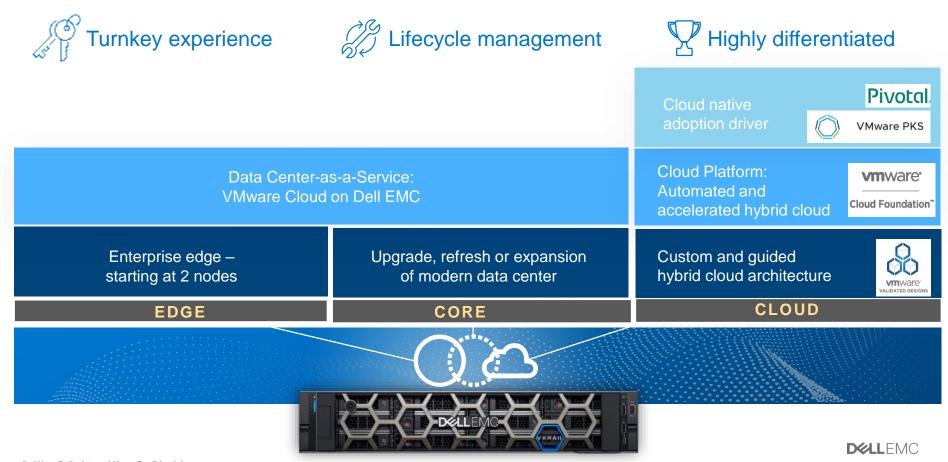


Dell EMC VxRail

The fastest & simplest path to IT outcomes in VMware environments



VxRail – platform for Edge, Core & Cloud



*Sour&e^fYAm 🕀 Toperal Haact 🚱 Haact 🚱 (Wanterly Converged Tracker, Q1 2019. Hyperconverged Systems product category, vendor revenue (US\$M) June 2019

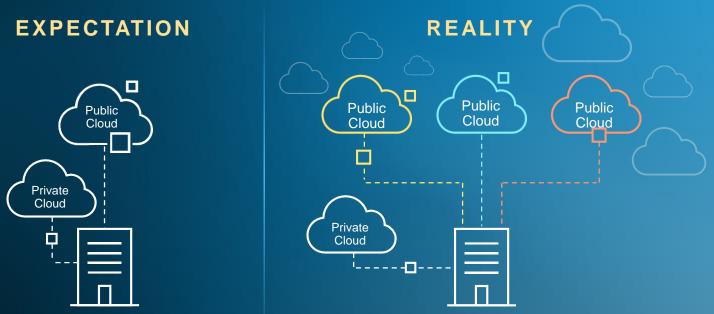
Dell Technologies Cloud on VxRail with VCF



Customers Want Multiple Clouds



of customers will deploy workloads across two or more clouds¹



Leading to Operational Silos without the possibility of moving workloads between these silos

¹ IDC White Paper, sponsored by Cisco, Adopting Multicloud — A Fact-Based Blueprint for Reducing Enterprise Business Risks, June 2018.



The future is multi-cloud

Competition drives innovation and the creation of new services



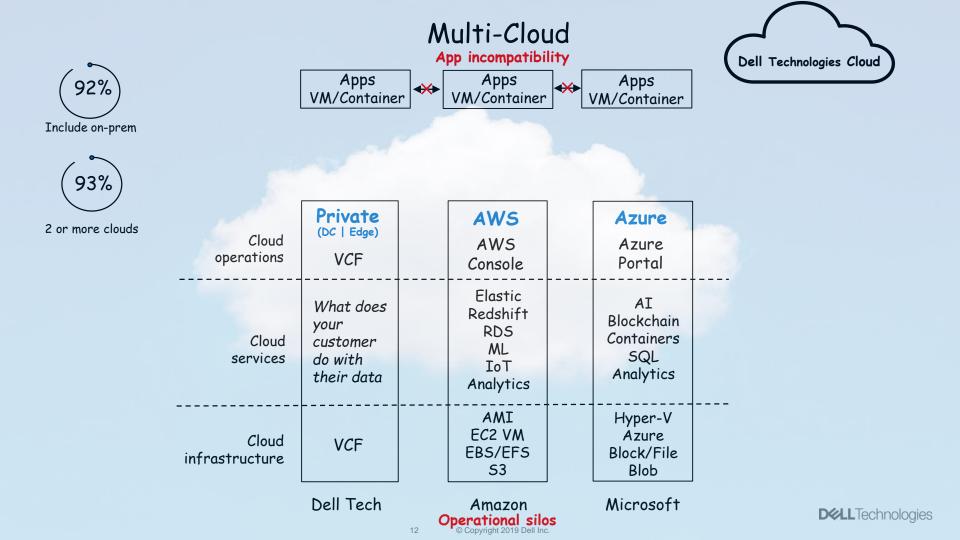
Dell EMC wants to help our customers leverage all these services, not just a subset

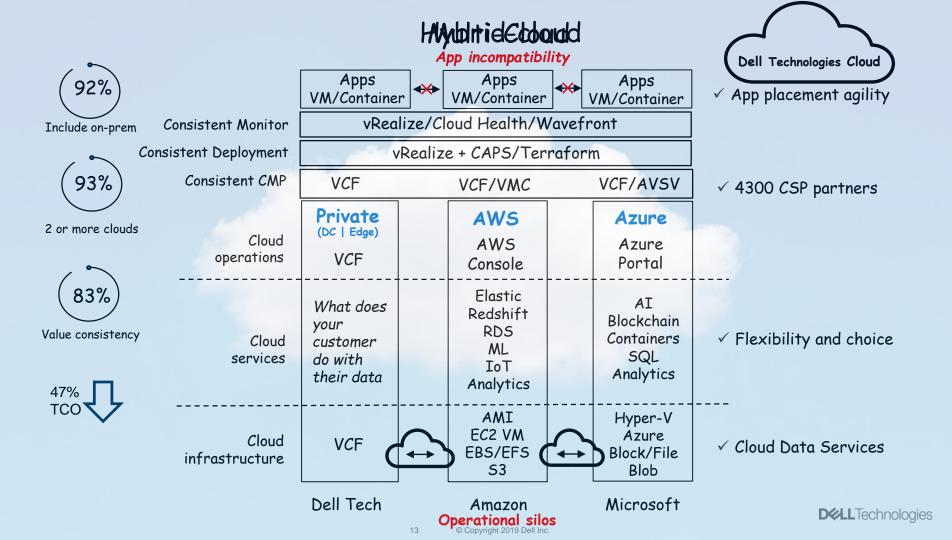
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		Dell Technol
	Apps VM/Containe	
Cloud	Private (DC Edge)	
operations	vR \66 1fize	
Cloud	What does your customer	
Services	their data	
Cloud infrastructure	ESXi NGK vSAN	
	Dell Tech	
	Cloud services 	Cloud operationsPrivate (DC Edge) vR&ClizeCloud servicesWhat does your customer do with their dataCloud servicesESXi NGFR vSAN





The Dell Technologies Cloud



#1 Global Provider of Cloud Systems Management Software¹ #1 Global Provider of Hyperconv (G) NE wolleasteesegy Infrastructure Revenue² Infrastructure Software³

¹ IDC Worldwide Quarterly Cloud System Management Software Market Shares September 2018 – Doc #US44282218
 ² IDC Worldwide Quarterly Cloud IT Infrastructure Tracker, March 2019
 ³ IDC Worldwide Hyperconverged Infrastructure Software, Apr 2019



Dell Technologies Cloud Platform

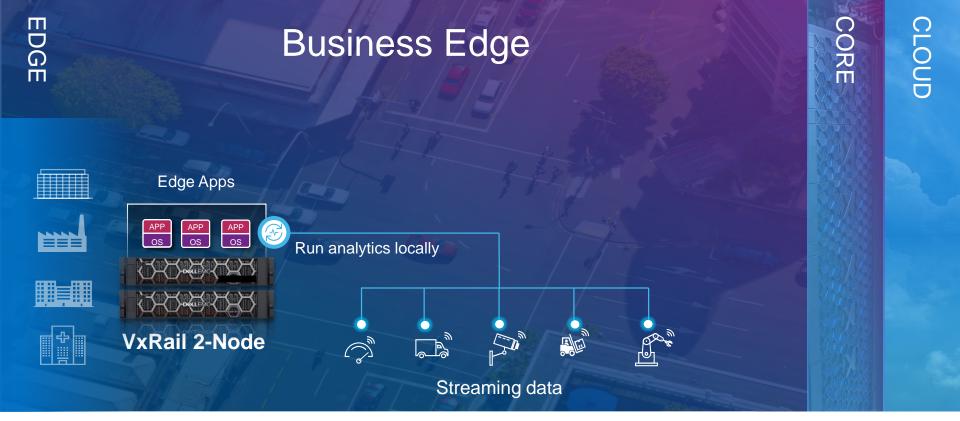
The complete portfolio for the Hybrid Cloud Journey with Dell EMC HCI and VMware VCF





$EDGE \longleftrightarrow CORE \longleftrightarrow CLOUD$

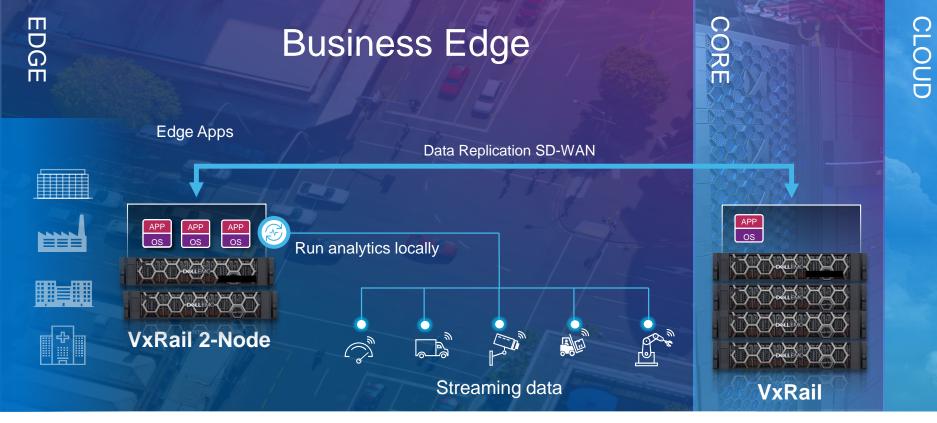




Small footprint, easy to deploy

Optimized for data retention and flexibility

Data can be replicated to core data center



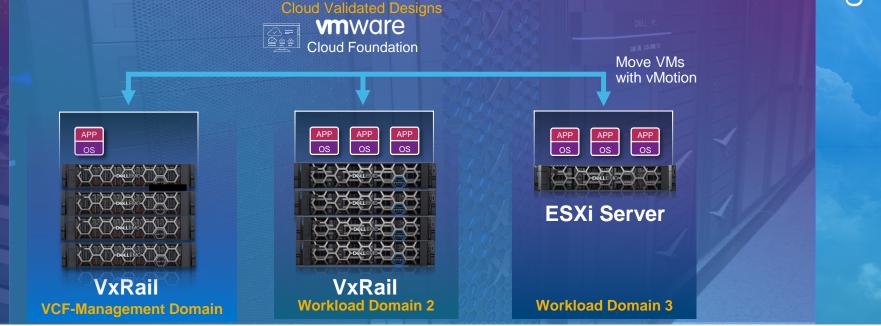
Small footprint, easy to deploy

Optimized for data retention and flexibility

Data can be replicated to core data center

CORE

Data center modernization



Utilizes existing infrastructure investments

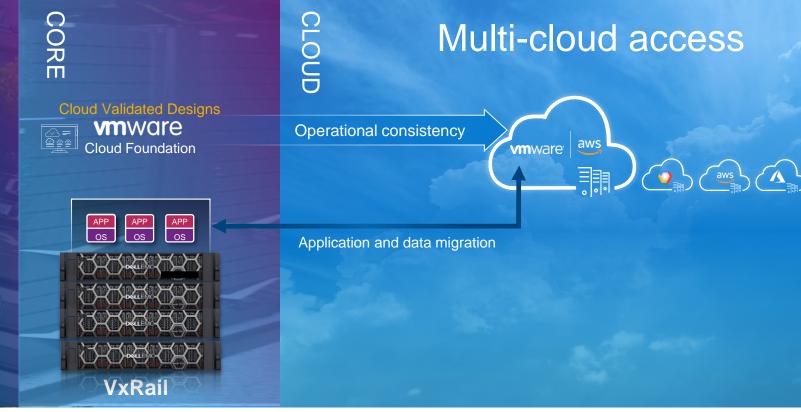
Complements existing HCI

Landing zone for VCF workloads

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CLOUD

EDGE



Seamless application mobility with VCF

Multi-cloud for workload migration, analytics, test/dev

Scalable, resilient cloudattached storage

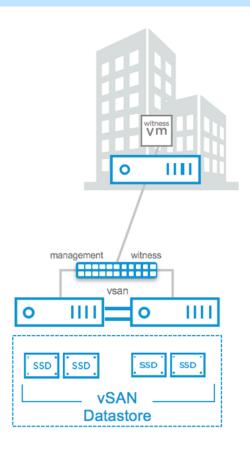




VxRail Deployment Options

Cluster deployment type

- Standard VxRail cluster
- -VVD
- VCF
- Dell Technologies Datacenter-as-a-Service
- <u>2-node vSAN cluster</u>
- Stretched cluster
- 2-node Deployment
 - Leverage customers' existing VMware infrastructure for witness
 - No automated install of witness
 - Witness status monitoring
 - Healthy, disconnected, maintenance mode, shutdown)
 - Direct connect or switched
 - Nodes connected with cross-over cables
 - 10/25GbE switch required for switched

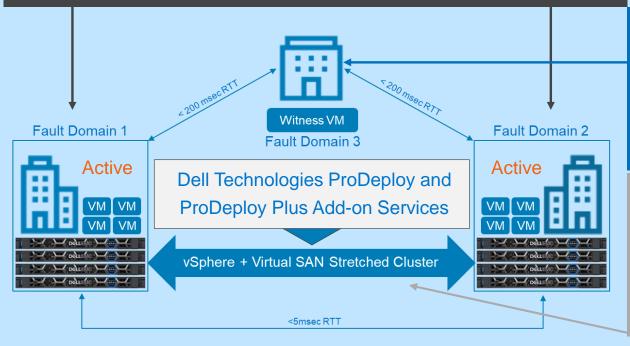


VxRail Stretched Cluster



Elements of a stretched cluster

All virtualization hosts are part of the same logical cluster but housed in separate locations in an active/active configuration.



A witness host housed in a third location coordinates data placement between sites and assists in the failover process in the event of a failure.

The vSAN Stretched Cluster feature ensures an entire site failure can be tolerated with no data loss and near zero downtime.

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Configuration parameters of a stretched cluster

- Preferred or Primary site one of the two data sites that is configured as a vSAN fault domain.
- Secondary site one of the two data sites that is configured as a vSAN fault domain.
- Witness host a dedicated ESXi host or vSAN witness appliance that is host to the witness
 component which coordinates data placement between the preferred and secondary site. It also
 helps with the failover process. This is the third fault domain.

The vSAN storage policies that impact the VxRail Cluster configuration are:

- Primary Failures to Tolerate (PFTT)1/Failures to Tolerate (FTT) for stretched clusters this
 rule has two possible values: 0 ensures protection on a single site; 1 enables protection
 across sites.
- Secondary Failures to Tolerate (SFTT) This term is used in vSAN 6.6/VxRail 4.5.070 or later. The rule that defines the number of host and device failures that a virtual machine object can tolerate in the local site. Possible values: 0,1,2,3.
- *Failure Tolerance Method-* either RAID-1 (mirroring) used when performance is important or starting with vSAN 6.6/VxRail 4.5.070, RAID-5/6 (erase coding) used when capacity is important. For stretched clusters, this policy only applies to the SFTT setting. This failure tolerance method is the local file protection mode.
- Affinity (only applicable starting with vSAN 6.6/VxRail 4.5.070) this policy is applicable when PFTT is set to 0. It is set to preferred or secondary to determine which site stores the vSAN object.

https://www.dellemc.com/resources/en-us/asset/white-papers/products/converged-infrastructure/h15275-vxrailplanning-guide-virtual-san-stretched-cluster.pdf

VxRail: Automated Life-Cycle Management

Q	
	Unlock
	Innovation

RAPID PATCHING AND UPDATING

Automated patching to keep pace with innovation Single click update entry to full stack updates Upgrade time estimates enable better business alignment



STREAMLINED CLUSTER UPGRADES

Schedule upgrades at your convenience Only update needed components Pre-stage next nodes for time savings

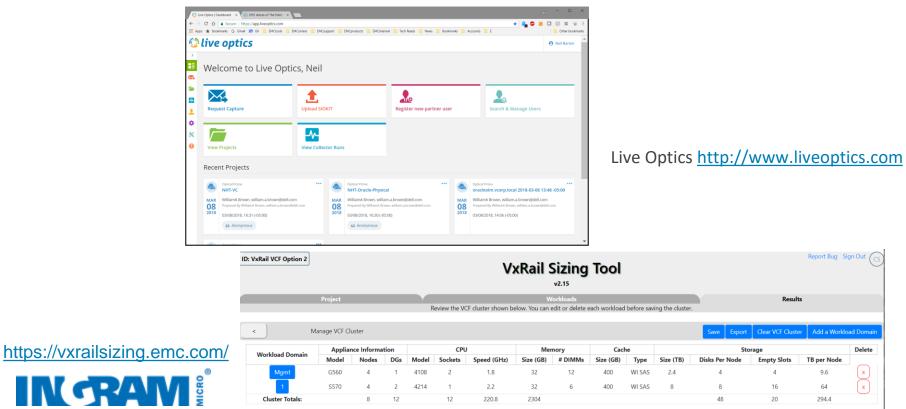


Evolve predictably

NON-DISRUTPTIVE END TO END UPDATES

Non-disruptive End to End Upgrades Stretched cluster updates \$5M per year lab investment

Size Your VxRail Cluster



VxRail for HPC and Al

in the Core



Expand Workload Possibilities

Unlock innovation and modernize the data center



Expanding Platforms for Business-Critical Workloads

New VxRail P580N model

- Features four-socket PowerEdge server platform with 2nd Generation Intel® Xeon® Scalable Processors delivering 2x the memory per system*
- Ideal for in-memory intensive database applications including SAP HANA workloads, offering 25% potential processing enhancement over VSA based solutions
- First performance optimized P series 2U
 platform with all NVMe

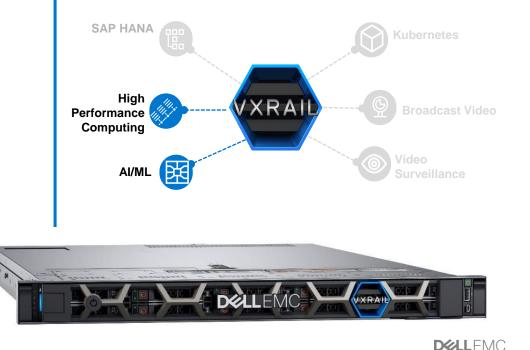
SAP HANA



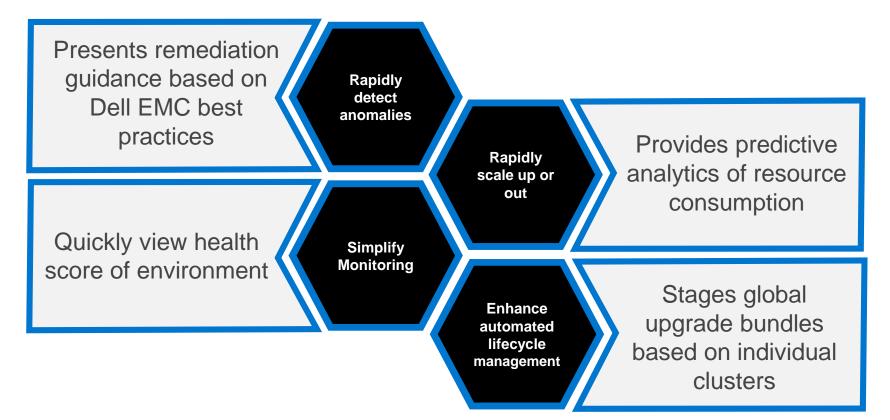
*Up to 6144GB RAM

High Performance Cost Effective Platforms

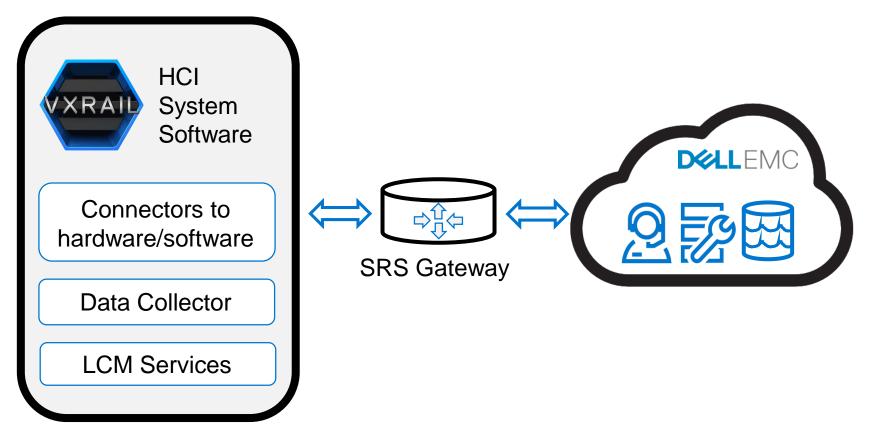
- New! E560N designed to run complex workloads including data warehouses, ecommerce, databases, and highperformance computing (HPC)
- New! NVIDIA T4 GPUs in E series platforms, for deep learning, AI/ML, data inferencing and of course VDI workloads.
- Addition of 7.68TB value SSD, doubles the capacity of all flash platforms



Simplified Operations with VxRail ACE



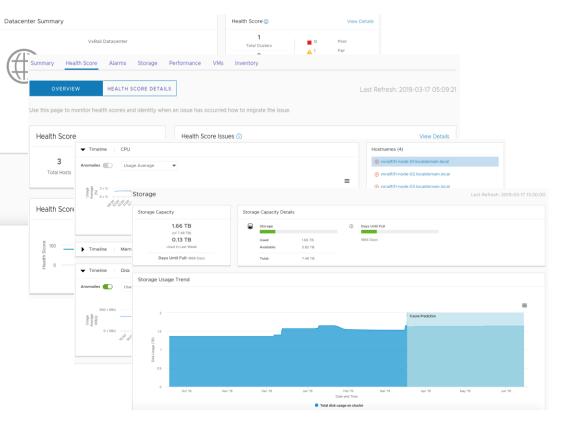
ACE Connectivity





ACE Functionality

- Global visualization
- Simplified health score
- Advanced metric charting
- Capacity planning





VxRail Knowledge Center

Now featuring **Partner Fast Pass**: find everything you're looking for without the hassle of searching.

http://vxrail.is/partnerfastpass

DELL EMC VXRAIL PARTNER FASTPASS

What is the VxRail FastPass? The VxRail FastPass is a collection of the most useful VxRail marketing assets, demos and sales tools

Looking for additional content? Check out the VxRail Knowledge Center to search for all Dell EMC collateral

How do I use it? Links vary depending on confidentiality:

- Public: DellEMC.com
- Partner: Internal and channel partner viewable

How do I know what's changed? The FastPass is updated quarterly. Changes from the last edition are highlighted in yellow with a short explanation in bold red.

Who do I contact if I have questions? Please report all broken links, comments or questions to: Jeremy Goulder.

For You

DISCOVER

Partner Deck Online Training Partner Accreditation

EDUCATE

Technical Presentation VxRail FAQs EduTube Channel

BUY Sizing Tool Ordering & Licensing Guide Proposal Generator Co-Selling Guides

GROW

Welcome to VxRail Video ECN Community VxRail Xpert community For Customers

DISCOVER

Customer Presentation Solution Overviews Data Sheets Future-Proof

EDUCATE

Dell EMC eStore TCO Studies Xpress Sizer Test Drive

BUY

Interactive Demo Xpert Videos White Papers VxRail TechBook

GROW

Welcome to VxRail Video Best Practice Guides Planning Guides ECN Community





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