Dell EMC VxRail Appliance

DON'T JUST REFRESH YOUR SERVERS, TRANSFORM YOUR INFRASTRUCTURE WITH VXRAIL ON 14TH GENERATION POWEREDGE SERVERS

VxRail – The Standard in Hyper-converged

- Proven to deliver an up to 30% TCO advantage over do-it-yourself HCI, and a 43% lower cost of serviceability with integrated end-to-end support.

- 14th gen PowerEdge, a server platform that is uniquely designed and optimized for HCI, enables VxRail to deliver the utmost flexibility and millions of configuration options.

- VxRail on 14th gen PowerEdge delivers 2x more IOPS and half the response time – sustained at sub-1ms.

- Supports any HCI use case including file, graphics-intensive VDI, big data and analytics, remote office, and high performance computing.

- Industry-leading enterprise data services, including HCI-native data-at-rest encryption, compression, deduplication, and erasure coding. Replication, backup, and file services make VxRail ready for almost any application or workload.

- Start small, with a few as three nodes. Multi-node scaling, storage capacity expansion, mixed 14th and 13th gen PowerEdge clusters, and vSphere license flexibility enable growth that meets business demands.

- Single point of global 24x7 support for both the hardware and software.

Agility is a key element to accelerating IT transformation. Hyper-converged is a key contributor to enabling agility. A recent survey by industry analyst firm ESG illustrates that the vast majority of organizations that have adopted, 87%, say that HCI has made their organization more agile. The result is they are deploying HCI for a wider variety of workloads, with most running 20% or more of their apps on HCI.

Dell EMC VxRail™ accelerates and simplifies IT through standardization and automation. With VxRail on 14th Generation PowerEdge, you don't just refresh your server, you transform your infrastructure.

The VxRail Appliance Advantage

Dell EMC VxRail invests in the complete lifecycle, including advanced automation, making it easier for you from day one forward, allowing you to further simplify IT infrastructure and operations. VxRail Appliances on next gen PowerEdge servers are refined, optimized, and robust platforms that help you simplify the entire lifecycle – from deployment, to management, to scaling, to maintaining.

Based on a study by Silverton Consulting, VxRail is proven to deliver an up to 30% TCO advantage over do-it-yourself HCI. Additionally, VxRail offers a 43% lower cost of serviceability with integrated end-to-end support. In short, VxRail enables you to do more with less and allows your IT staff to focus on more strategic projects instead of simply keeping the lights on.

VxRail is the *only* fully integrated, preconfigured, and tested HCI appliance powered by VMware vSAN™ and is the standard for transforming VMware infrastructures. VxRail provides a simple, cost effective hyper-converged solution that solves a wide range of your challenges and supports almost any use case, including tier-one applications and mixed workloads. Dell EMC enables faster, better, and simpler delivery of virtual desktops, business-critical applications, and remote office infrastructure.

VxRail on 14th Generation PowerEdge Servers – More Powerful and Flexible

VxRail and next-generation PowerEdge servers deliver more powerful and predictable performance with utmost flexibility in configuration options to meet any use case and more demanding, mission-critical workloads in VMware environments. Uniquely purpose-built for HCI, the new 14th Generation of the world's best-selling PowerEdge server built-in up to 150 custom Software-defined Storage (SDS) requirements. PowerEdge servers were designed specifically for and tailored to HCI workloads that depend on the tenets of both servers and storage.

VxRail on the latest PowerEdge servers delivers up to 2X more IOPS and half the response times that are sustained at sub-1ms (up to 80% IO utilization). It also offers greater all-flash and hybrid storage capacity, more GPU cards for increased graphics acceleration, and leverages higher endurance and redundant boot devices (BOSS).

With the latest Intel® Xeon® Scalable processors, VxRail is the most configurable HCI appliance, delivering 1.75x more CPU options that previous version. New SATA SSD capacity drives provide a more affordable all-flash entry-point. SATA SSD drives are ideal for capacity-intensive vs performance intensive workloads, and will be available on VxRail E/P/V Series nodes in capacity drive sizes 1.92TB and 3.84 TB.

Scalability and Management

VxRail lets you to start small, with as few as three nodes, while delivering the same enterprise features and VMware management alignment. Mixed 14th and 13th generation PowerEdge clusters, non-disruptive scaling and storage capacity expansion provide a simple, predictable, "pay-as-you-grow" approach for future scale up and out as your business and user requirements evolve.

Additionally, enterprise capabilities such as batch node expansion, REST APIs, and flexible object renaming, accelerate growth, save time and ensures VxRail complies with your data center policies.

Day-to-day, all virtualization management is done within the familiar vCenter Server interface. Additional IT and Cloud automation can be provided with optional software like VMware's vRealize Operations and vRealize Automation allowing you to seamlessly integrate VxRail as the foundation of your data center infrastructure.

Security and Data Services

Based on VMware vSphere 6.5u1 and vSAN 6.6u1 software, VxRail delivers vSAN encryption at the cluster level. VxRail supports 2-factor authentication (SecurID and CAC), allowing you to avoid limited options and high cost of self-encrypting drives. vSAN encryption is built for compliance requirements and offers simple key management with support for all KMIP compliant key managers. Additionally, all-flash VxRail Appliances still include efficient and in-line deduplication, compression, and erasure coding at no additional cost.

Backup and Recovery

Enhanced stretched clusters with local site protection offers enterprise-level availability. The VxRail cluster can tolerate an entire site failure as well as local component failures with no data loss and zero down time. As always, included VMware Data Protection (VDP), and RecoverPoint for VMs provide simple, efficient, and proven backup and disaster recovery. Optional Data Protection Suite for VMware extends included data protection features with the industry's broadest capabilities, including backup and recovery, continuous data protection, monitoring and analysis, and search.

World Class Service and Support

With a single point of global 24x7 support for both the hardware and software, and backed by ESRS for dial-home secure remote connection for monitoring, diagnosis, and repair, VxRail provides the ultimate appliance support.

Connection™
we solve IT™

1.800.800.0014
www.connection.com

DELLEMC