

Dell EMC VxRack SDDC

ACCELERATE TRANSFORMATION TO A VMWARE MULTI-CLOUD ENVIRONMENT



VXRACK SDDC EASILY CREATES A MODERN VMWARE SOFTWARE DEFINED DATA CENTER

Dell EMC VxRack SDDC system powered by VMware Cloud Foundation is a new class of hyper-converged integrated systems that provides the easiest path for a VMware multi cloud environment. This turnkey solution is fully engineered and takes advantage of market leading hardware and software technologies. It includes all the necessary compute, networking, and storage components to deliver a complete self-contained and optimized VMware private cloud experience. VxRack SDDC with VMware Cloud Foundation will simplify digital transformation and future proof your data center by removing the focus on maintaining infrastructure. Leveraging VxRack SDDC means you can now easily deliver a complete VMware SDDC at the speed your business requires. This new level of modern agility will be your competitive advantage by allowing you to provide services faster, deploy applications sooner, and reduce downtime.

EASILY DEPLOY A MODERN NEXT GENERATION DATA CENTER

Dell EMC working closely with VMware brings together everything you need for a complete software defined data center. A complete VMware software stack including the latest VMware SDDC Manager delivers a radically simpler user experience by automating day 0 to day 2 system operations. VMware Cloud Foundation includes:

- VMware vSphere™ (hypervisor)
- VMware NSX™ (network virtualization)
- VMware vSAN™ (software-defined virtual storage)
- VMware SDDC Manager (end-to-end automated lifecycle management)

VxRack SDDC software options are available and include VMware vRealize Suite and VMware Horizon for VDI providing additional VxRack SDDC operations and monitoring for IaaS and VDI use cases.

PHYSICAL AND VIRTUAL NETWORKING BUILT IN

A hyper-converged network can be difficult to build and manage as many solutions simply exclude network integration. These complex components consist of the physical top-of-rack switches as well as software-defined networking (SDN) technologies. Overlooking the network makes it difficult to plan for growth and as the environment scales, operational performance degrades.

VxRack SDDC - the ultimate infrastructure foundation for VMware multi-cloud

- Fully integrated turnkey VMware SDDC solution with managed physical and virtual infrastructure included
- Built with VxRail based on leading Dell EMC PowerEdge servers with support for full configure to order resulting in thousands of node configuration options available
- Engineered with automation and services extension to easily manage your environment without operational complexity
- Full lifecycle management and assurance
- Integrated networking with built-in hardware and software defined networking
- Performance at scale with all-flash drive configurations and network density best practices included
- Simplify agility with multiple configurations for any use case

VxRack SDDC integrates the latest technologies in networking at rack scale—both physical and software defined. Physical networking consists of top of rack (ToR) and rack-interconnect switches. The VMware SDDC Manager within VxRack SDDC allows for configuration, control, and management of the physical network elements. In addition, software defined networking is easily managed through VMware NSX.

Each physical rack contains physical network switches controlling network traffic, providing redundancy, and managing out-of-band connectivity. With scale-out across multiple racks, east-west traffic is fully self-contained and connectivity between racks uses the included interconnect rack switches.

VxRack SDDC comes with industry best practices already applied. Oversubscription, switch density, switch ports, high density, wire rates, and other complex networking challenges are easily managed. Best in class Cisco switches provide 10 GbE or 40 GbE IP connectivity between VxRack SDDC and the external network. The built-in network switches eliminate the network bottlenecks that normally limits the scale of other hyper-converged infrastructure solutions in the market and provides a continued path for easy to manage future growth.

Enhanced VM security through software-defined networking with VMware NSX – included with VMware Cloud Foundation – offers automated and intelligent operations and delivery of security services, including micro-segmentation, distributed firewall, data security, activity monitoring, and VPN (IPSEC, SSL).

STANDARDIZED ON LEADING DELL EMC POWEREDGE SERVERS

By integrating industry-leading Dell EMC PowerEdge servers, Dell EMC VxRack SDDC delivers the entire hyper-converged infrastructure stack (from software through servers to storage) and provides even more operational value, enabling faster innovation while leveraging the Dell EMC world-class supply chain. IT organizations can now partner with a single vendor for end-to-end technology solutions that will modernize their data center.

VxRack SDDC built with VxRail based on Dell EMC PowerEdge servers offers thousands of configure to order node configuration choices across CPU, memory, storage type, storage capacity, form factor, power, and networking. All-flash storage, VDI optimized systems, and the latest family of Intel Scalable Processor Family processors help address new customer use cases for both traditional, high performance, and cloud-native workloads to support today's business-leading applications.

DELL EMC TRUSTED

Dell EMC is a leading innovator of intelligent converged infrastructure systems with the broadest portfolio on the market including Dell EMC VxRail™ Appliances, VxBlock™ Systems, and VxRack FLEX Systems. Like the rest of the family, VxRack SDDC is engineered, manufactured, managed, supported, and sustained as ONE product. Dell EMC is the only provider authorized to provide support for both the hardware and software, including VMware, with a single point of contact for VxRack SDDC.

Every VxRack SDDC includes a documented set of firmware and software releases for all VxRack SDDC system components, pre-tested and certified for interoperability, and regularly delivered to customers to simplify upgrades and keep systems stabilized and optimized for operational integrity.

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, VxRack SDDC provides the ultimate rack scale engineered system support.

FOR MORE INFORMATION

Dell EMC VxRack SDDC: www.dell.com/vxrack

VMware Cloud Foundation: <https://www.vmware.com/products/cloud-foundation.html>

Dell EMC Converged Infrastructure: <http://www.dell.com/converged-infrastructure/benefits.htm>



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