

# Dell VxRail

Designed for VMware, with VMware, to enhance VMware

Dell VxRail™, the only jointly engineered hyperconverged infrastructure system with VMware, is the easiest and fastest way to extend a VMware environment. Powered by VMware vSAN™ and managed through the VMware vCenter interface, VxRail provides existing VMware customers a consistent operating experience. As the foundation for Dell Technologies Cloud, VxRail is the first hyperconverged system fully integrated with VMware Cloud Foundation SDDC Manager to deliver one, complete, automated platform.

VxRail is a distributed system consisting of common modular building blocks powered by the best-in-class VxRail HCI System Software that allows customers to start small and grow, scaling capacity and performance easily and non-disruptively from 2 to 64 nodes in a cluster. Single-node scaling and storage capacity expansion provide a simple, predictable, cost-effective “pay-as-you-grow” approach for future growth as needed.

VxRail HCI System Software ensures workloads are always up and running with intelligent lifecycle management (LCM) that non-disruptively automates upgrades, patches, node additions and node retirement to ensure that VxRail infrastructure maintains a continuously validated state. SaaS multi-cluster management can further enhance operational efficiency by leveraging infrastructure machine learning to aggregate performance metrics and detailed health reports into APEX AIOps Infrastructure Observability, providing a single global view of a customer’s VxRail environment. And, coupled with a broad set of public RESTful APIs, VxRail is uniquely positioned as the platform of choice for greater cloud and IT automation extensibility.

Built on PowerEdge servers with a choice of Intel® Xeon® Scalable or AMD EPYC™ processors, VxRail is configurable with multiple compute, memory, storage, network and accelerator options to cover a wide variety of applications and workloads, and is continuously adopting new technologies like NVMe storage, 100 Gb/s networking, and NVIDIA Data Center GPUs to deliver application performance, availability and diversity for the workloads of tomorrow. And with redundancy built in at every opportunity – from the RAID 1 “BOSS”, high-efficiency redundant power supplies, and multiple networking ports – VxRail is designed for 99.9999% high availability.

With the fast adoption of digital transformation and the proliferation of 5G networks, workloads are expanding outside of traditional core data centers, creating an immediate need for a small footprint, low-cost, easy-to-manage infrastructure option. This is especially true for retail, telecommunications, manufacturing and ROBO customers, whose data collection and data processing needs are increasingly happening at the edge. Customers already benefiting from the simplicity and automation that VxRail provides in the core data center can leverage VxRail satellite nodes, a single node deployment option, to extend these same benefits to the edge.

VxRail comes stacked with mission-critical data services at no additional charge. Data protection technologies such as a starter set of licenses for Dell RecoverPoint for VMs is included, with the option of adding Data Protection Suite for VMware and Data Domain Virtual Edition for larger environments that require more comprehensive data protection.

VxRail is backed by Dell Technologies’ world-class support, offering a single point of contact for both hardware and software components and includes Dell Secure Connect Gateway for call-home and proactive two-way remote connection for remote monitoring, diagnosis, and repair to ensure maximum availability.



# Dell VxRail Deployment Flexibility

## VxRail with vSAN Express Storage Architecture (ESA)

VMware vSAN ESA is a vSAN architecture optimized for high performing, modern hardware. VxRail deployed with vSAN ESA employs a single-tier, all-NVMe storage architecture whose high performance can parallelize I/Os with low CPU overhead. This in turn offers simplified storage device management that allows for adaptive data resiliency and enables RAID-1 performance at RAID-6 capacity.

## VxRail with vSAN Original Storage Architecture (OSA)

VxRail with vSAN OSA describes VxRail deployed with original vSAN architecture, configured as a two-tier diskgroup based storage system comprised of dedicated cache and capacity disks.

## VMware Cloud Foundation on VxRail

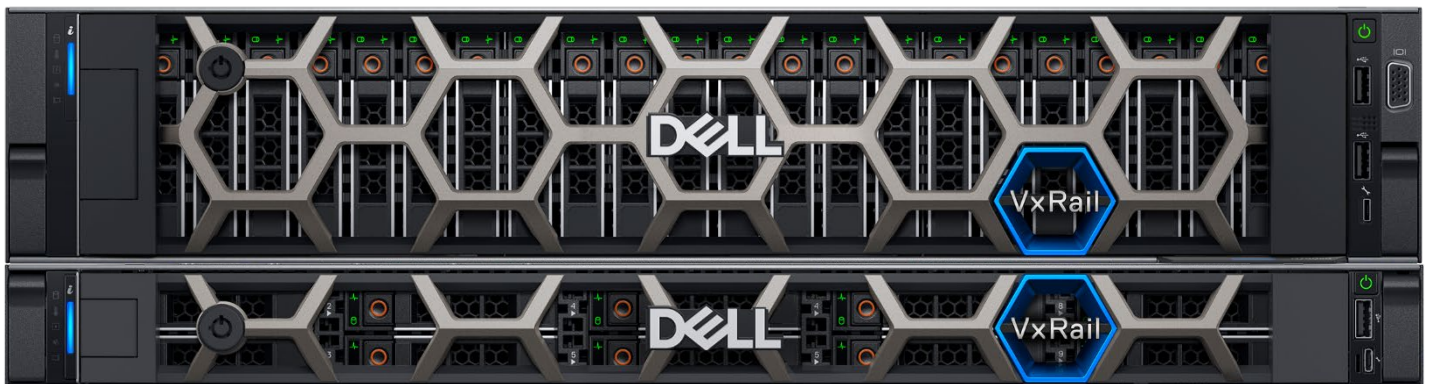
VMware Cloud Foundation on VxRail delivers a simple and direct path to the hybrid cloud and Kubernetes at cloud scale with one complete, automated platform, supporting simultaneous VM and container-based workloads on industry-leading Dell PowerEdge server and Dell Storage across multiple cloud environments. The platform delivers a set of software defined services for compute (with vSphere and vCenter), storage (with vSAN and Dell Storage), networking (with NSX), security, cloud management (with Aria Suite), End User Computing Services (with VMware Horizon and App Volumes), and container-based cloud native platform services (with VMware vSphere 7 with Kubernetes and Tanzu Kubernetes Grid in both private or public environments, making it an ideal operational hub for hybrid cloud.

## VxRail satellite nodes

VxRail satellite nodes enable customers to implement a low-cost single node option and benefit from the same VxRail automation, testing and optimization, unique lifecycle management, and deep VMware integration increasing operational efficiencies and standardization across edge locations, without the use of vSAN.

## VxRail dynamic nodes

VxRail dynamic node clusters are compute-only vSphere clusters that allow users to scale compute and storage independently based on workload needs. Since VxRail dynamic nodes do not support internal cache or capacity storage, vSAN is not required. The Dell storage portfolio, including Dell PowerFlex, PowerStore-T, PowerMax, and Unity XT, can be leveraged as external primary storage. VxRail and VCF on VxRail solutions can support dynamic node deployments in a three-tier vSphere architecture to support mission critical data-centric workloads, like financial services and healthcare applications. VxRail dynamic nodes can also extend to VMware vSAN cross-cluster capacity sharing environments where remote vSAN datastores can also be used as primary storage for dynamic node clusters.



## VxRail VE-660

| Node                   | VE-660  |   |   |                   |
|------------------------|---|---|---|-------------------|
| Chassis                | R660 10 x 2.5" drive bays   |   |   |                   |
| vSAN Type              | ESA   | OSA                                     |   |                   |
| Storage Type           | All NVMe  | All NVMe                                | All flash   | Hybrid            |
| CPU                    | Single or Dual Intel Xeon Scalable (Gen 4 or Gen 5)   |   |   |                   |
| Memory                 | 128 GB to 8192 GB   | 64 GB to 8192 GB                        |   |                   |
| Cache                  | N/A   | Up to 1600 GB SAS<br>Up to 3200 GB NVMe |   |                   |
| Storage capacity       | Up to 153.6 TB<br>RI or MU NVMe   | Up to 122.88 TB<br>RI or MU NVMe        | Up to 61 TB SAS or<br>Up to 30 TB SATA                | Up to 19.2 TB SAS |
| Storage controller     | N/A   |   | HBA355i or<br>PERC H755 with RAID 1, 5, 6, 10, 50, 60 |                   |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE                                   |   |   |                   |
| Networking             | Up to 3x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE or<br>Up to 3x: Dual or quad 10 GbE     |   |   |                   |
| Fibre channel          | Up to 3x Dual port 32Gb / 64Gb HBA  |   |   |                   |
| GPU                    | Up to 2x: NVIDIA L4 or<br>Up to 2x: NVIDIA A2   |   |   |                   |
| Deployment flexibility | vSAN HCI  |   | vSAN HCI<br>Satellite node<br>Dynamic node            |                   |
| Additional information | <a href="#">VxRail VE-660 3D Viewer</a><br><a href="#">VxRail VE-660 Technical Specifications</a> |   |   |                   |

## VxRail VP-760 (accelerator optimized)

| Node                   | VP-760  |                                  |   |                            |
|------------------------|---|----------------------------------|---|----------------------------|
| Chassis                | R760 24 x 2.5" drive bays<br>(accelerator optimized)  |                                  |   |                            |
| vSAN Type              | ESA   |                                  | OSA   |                            |
| Storage Type           | All NVMe  | All NVMe                         | All flash   | Hybrid                     |
| CPU                    | Dual Intel Xeon Scalable (Gen 4 or Gen 5)   |                                  | Single or Dual Intel Xeon Scalable (Gen 4 or Gen 5)   |                            |
| Memory                 | 128 GB to 8192 GB   |                                  | 64 GB to 8192 GB  |                            |
| Cache                  | N/A   |                                  | Up to 1600 GB SAS<br>Up to 3200 GB NVMe   |                            |
| Storage capacity       | Up to 368.64 TB<br>RI or MU NVMe  | Up to 322.56 TB<br>RI or MU NVMe | Up to 161 TB SAS or<br>Up to 80.6 TB SATA   | Up to 50.4 TB SAS          |
| Storage controller     | N/A   |                                  | HBA355i or<br>PERC H755 with RAID 1, 5, 6, 10, 50, 60   |                            |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE   |                                  |   |                            |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 4x: Quad 10 GbE or 25 GbE or<br>Up to 6x: Dual 10 GbE or 25 GbE   |                                  |   |                            |
| Fibre channel          | Up to 5x Dual port 32Gb / 64Gb HBA  |                                  |   |                            |
| GPU                    | Up to 2x: NVIDIA H100 or<br>Up to 2x: NVIDIA L40S or<br>Up to 2x: NVIDIA L40 or<br>Up to 2x: NVIDIA A16 or<br>up to 4x: NVIDIA L4 or<br>Up to 6x: NVIDIA A2 |                                  | Up to 2x: NVIDIA H100 or<br>Up to 2x: NVIDIA L40S or<br>Up to 2x: NVIDIA L40 or<br>Up to 2x: NVIDIA A16 or<br>Up to 2x: NVIDIA L4 or<br>Up to 6x: NVIDIA A2 |                            |
| Deployment flexibility | vSAN HCI  |                                  | vSAN HCI<br>Satellite node<br>Dynamic node  | vSAN HCI<br>Satellite node |
| Additional information | <a href="#">VxRail VP-760 3D Viewer</a><br><a href="#">VxRail VP-760 Technical Specifications</a>   |                                  |   |                            |

## VxRail VP-760 (storage optimized)

| Node                   | VP-760  |                            |
|------------------------|---|----------------------------|
| Chassis                | R760 28 x 2.5" drive bays<br>(storage optimized)  |                            |
| vSAN Type              | OSA   |                            |
| Storage Type           | All flash   | Hybrid                     |
| CPU                    | Single or Dual Intel Xeon Scalable (Gen 4 or Gen 5)   |                            |
| Memory                 | 64 GB to 8192 GB  |                            |
| Cache                  | Up to 1600 GB SAS<br>Up to 3200 GB NVMe   |                            |
| Storage capacity       | Up to 184.32 TB SAS or<br>Up to 92.16 TB SATA   | Up to 57.6 TB SAS          |
| Storage controller     | HBA355i or<br>PERC H755 with RAID 1, 5, 6, 10, 50, 60   |                            |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE                                   |                            |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 4x: Quad 10 GbE or 25 GbE or<br>Up to 6x: Dual 10 GbE or 25 GbE |                            |
| Fibre channel          | Up to 5x Dual port 32Gb / 64Gb HBA  |                            |
| GPU                    | N/A   |                            |
| Deployment flexibility | vSAN HCI<br>Satellite node<br>Dynamic node  | vSAN HCI<br>Satellite node |
| Additional information | <a href="#">VxRail VP-760 3D Viewer</a><br><a href="#">VxRail VP-760 Technical Specifications</a> |                            |

## VxRail VS-760

| Node                   | VS-760  |
|------------------------|---|
| Chassis                | R760 4 x 2.5" and 12 x 3.5" drive bays  |
| vSAN Type              | OSA   |
| Storage Type           | Hybrid  |
| CPU                    | Single or Dual Intel Xeon Scalable (Gen 4 or Gen 5)   |
| Memory                 | 64 GB to 4096 GB  |
| Cache                  | 800 GB SAS<br>1600 GB SAS or NVMe<br>Up to 3200 GB NVMe   |
| Storage capacity       | Up to 144 TB SAS HDD  |
| Storage controller     | HBA355i   |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE                                   |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 3x: Quad 10 GbE or 25 GbE or<br>Up to 4x: Dual 10 GbE or 25 GbE |
| Fibre channel          | Up to 4x Dual port 32Gb / 64Gb HBA  |
| GPU                    | N/A   |
| Deployment flexibility | vSAN HCI  |
| Additional information | <a href="#">VxRail 3D Viewer</a><br><a href="#">VxRail VS-760 Technical Specifications</a>        |

## VxRail VE-6615

| Node                   | VE-6615  |                      |   |
|------------------------|--|----------------------|---|
| Chassis                | R6615 with 10 x 2.5" drive bays  |                      |   |
| vSAN Type              | ESA  | OSA                  |   |
| Storage Type           | All NVMe   | All NVMe             | All Flash                               |
| CPU                    | Single 4 <sup>th</sup> Generation AMD EPYC                                     |                      |   |
| Memory                 | 64 GB to 3072 GB   |                      |   |
| Cache drives           | N/A  | Up to 3200 GB NVMe   | Up to 1600 GB SAS<br>Up to 3200 GB NVMe |
| Storage capacity       | Up to 153.6 TB NVMe  | Up to 122.88 TB NVMe | Up to 61.4 TB SAS                       |
| Storage controller     | N/A  |                      | HBA355i                                 |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE                |                      |   |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 2x: Dual 25GbE or<br>Up to 2x: Dual 10GbE or |                      |   |
| Fibre channel          | Up to 2x dual port 32Gb / 64Gb HBA   |                      |   |
| GPU                    | Up to 2x: NVIDIA L4 or<br>Up to 2x: NVIDIA A2                                  |                      |   |
| Deployment flexibility | vSAN HCI   |                      |   |
| Additional information | <a href="#">VxRail VE-6615 Technical Specifications</a>                        |                      |   |

## VxRail VP-7625

| Node                   | VP-7625   |                      |  |
|------------------------|---|----------------------|--|
| Chassis                | R7625 with 24 x 2.5" drive bays   |                      |  |
| vSAN Type              | ESA   | OSA                  |  |
| Storage Type           | All NVMe  | All NVMe             | All flash  |
| CPU                    | Dual 4 <sup>th</sup> Generation AMD EPYC  |                      | Single or Dual 4 <sup>th</sup> Generation AMD EPYC |
| Memory                 | 64 GB to 3072 GB  |                      |  |
| Cache                  | N/A   | Up to 3200 GB NVMe   | Up to 1600 GB SAS<br>Up to 3200 GB NVMe            |
| Storage capacity       | Up to 368.64 TB NVMe  | Up to 322.56 TB NVMe | Up to 161.28 TB SAS                                |
| Storage controller     | N/A   |                      | HBA355i  |
| Onboard networking     | Dual 100GbE or<br>Dual or quad 25 GbE or<br>Dual or quad 10 GbE   |                      |  |
| Networking             | Up to 4x: Dual 100GbE or<br>Up to 3x: Dual or quad 25GbE or<br>Up to 3x: Dual or quad 10 GbE  |                      |  |
| Fibre channel          | Up to 2x Dual port 32Gb / 64Gb HBA  |                      |  |
| GPU                    | Up to 2x: NVIDIA H100 or<br>Up to 2x: NVIDIA L40 or<br>Up to 2x: NVIDIA L40S or<br>Up to 2x: NVIDIA A16 or<br>Up to 6x: NVIDIA L4 or<br>Up to 6x: NVIDIA A2 |                      |  |
| Deployment flexibility | vSAN HCI  |                      |  |
| Additional information | <a href="#">VxRail VP-7625 Technical Specifications</a>   |                      |  |



## VxRail VD-4000

| Chassis                | VD-4000r  | VD-4000z  |
|------------------------|---|---|
| Chassis                | Standard rackmount<br>2-post, 4-post, or slide rails  | Flexible mount options<br>Stacking, VESA plate, DIN rail  |
| Configurations         | Up to four 1U nodes, two 2U nodes, or a combination   | Up to two 1U nodes or one 2U node   |
| Dimensions             | 19" x 14" (434mm x 355mm)<br>(19" x 18" 434mm x 457mm with bezel)   | 10.5" x 14" (267mm x 355mm)<br>(12" x 18" 305mm x 457mm with bezel and latch)   |
| Max weight             | 17.9kg (39.4lbs)  | 12.9kg (28.4lbs)  |
| Airflow                | Front or reverse airflow configuration  |   |
| PSU                    | 1800W 110V/240V AC, 1400W 110V/240V AC or 1100W 48V DC redundant PSU  |   |
| Options                | Intelligent filtered bezel<br>VD-4000w embedded vSAN witness node   |   |
| Additional information | <a href="#">VxRail VD-4000r 3D Viewer</a><br><a href="#">VD-4000r Technical Specifications</a><br><a href="#">VD-4000w Technical Specifications</a> | <a href="#">VxRail VD-4000z 3D Viewer</a><br><a href="#">VD-4000z Technical Specifications</a><br><a href="#">VD-4000w Technical Specifications</a> |

| Node                   | VD-4510c  |   | VD-4520c  |  |
|------------------------|---|---|---|--|
| Sled type              | 1U  |   | 2U  |  |
| vSAN Type              | ESA   | OSA   | ESA   | OSA  |
| Storage Type           | All NVMe  |   |   |  |
| CPU                    | Single 3 <sup>rd</sup> Generation Intel Xeon D with 16 or 20 cores                      | Single 3 <sup>rd</sup> Generation Intel Xeon D with 4*, 8, 12, 16 or 20 cores | Single 3 <sup>rd</sup> Generation Intel Xeon D with 16 or 20 cores                      | Single 3 <sup>rd</sup> Generation Intel Xeon D with 4*, 8, 12, 16 or 20 cores                  |
| Memory                 | From 128 GB to 512 GB   | From 64 GB to 512 GB  | From 128 GB to 512 GB   | From 64 GB to 512 GB   |
| Cache drives           | N/A   | Single 800 GB MU NVMe   | N/A   | Up to three 800 GB MU NVMe   |
| Capacity drives        | Up to four 3.84 TB RI NVMe  | Up to three 3.84 TB RI NVMe   | Up to twelve 3.84 TB RI NVMe  | Up to nine 3.84 TB RI NVMe   |
| Storage capacity       | 15.36 TB  | Up to 11.5 TB   | Up to 46.08 TB  | Up to 34.5 TB  |
| Storage controller     | N/A   |   |   |  |
| Onboard networking     | Quad 25 GbE   | Quad 10GbE or 25 GbE  | Quad 25 GbE   | Quad 10GbE or 25 GbE   |
| PCIe slots             | N/A   |   | Two full height full length x16 PCIe Gen 4 slots  |  |
| GPU                    | N/A   |   | Up to 2x: NVIDIA L4 or<br>Up to 2x: NVIDIA A2 or<br>Up to 1x: NVIDIA A30                |  |
| PCIe networking        | N/A   |   | Dual 100GbE QSFP56 or<br>Dual or quad 25GbE SFP28 or<br>Dual 10GbE BaseT                | Dual 100GbE QSFP56 or<br>Dual or quad 25GbE SFP28 or<br>Dual 10GbE BaseT or<br>Quad 1GbE BaseT |
| Deployment flexibility | vSAN HCI  | vSAN HCI Satellite  | vSAN HCI  | vSAN HCI Satellite   |
| Operating temperature  | -5C to 55C (configuration restrictions apply)   |   |   |  |
| Additional Information | <a href="#">VD-4510c 3D Viewer</a><br><a href="#">VD-4510c Technical Specifications</a> |   | <a href="#">VD-4520c 3D Viewer</a><br><a href="#">VD-4520c Technical Specifications</a> |  |
|                        | *Intel Xeon D 4-core processor available with vSAN OSA satellite node only              |   |   |  |

## VxRail E660

| Node                   | E660   |                            |  |   |
|------------------------|--|----------------------------|--|---|
| Chassis                | R650 10 x 2.5" drive bays  |                            |  |   |
| vSAN type              | OSA  |                            |  | ESA   |
| Storage type           | All Flash  | Hybrid                     | All NVMe                                   |   |
| CPU                    | Single or dual Intel Xeon Scalable Gen 3   |                            | Dual Intel Xeon Scalable Gen 3             |   |
| Memory                 | 64 GB to 4096 GB   |                            | 128 GB to 8192 GB                          | 128 GB to 4096 GB   |
| Storage class memory   | 256 GB to 8192 GB<br>Intel Optane 200 Series   |                            |  |   |
| Cache drives           | Up to 1600 GB SAS<br>400 or 800 GB Optane<br>Up to 3200 GB NVMe  |                            | 400 or 800 GB Optane<br>Up to 3200 GB NVMe | N/A   |
| Storage capacity       | 61 TB SAS or<br>30 TB SATA   | 19 TB SAS                  | 123 TB                                     | 153.6TB   |
| Storage controller     | HBA355i or<br>PERC H755 with RAID 1, 5, 6, 10, 50, 60  |                            | N/A  |   |
| Onboard networking     | Dual or quad 25 GbE or<br>Dual or quad 10 GbE  |                            |  | Dual or quad 25 GbE                                       |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE or<br>Up to 3x: Dual or quad 10 GbE                  |                            |  | Up to 2x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE |
| Fibre channel          | Up to 3x dual port 16Gb / 32Gb HBA   |                            |  |   |
| GPU                    | Up to 3x: NVIDIA L4 or<br>Up to 3x: NVIDIA A2  |                            |  |   |
| Deployment flexibility | vSAN HCI<br>Satellite node<br>Dynamic node   | vSAN HCI<br>Satellite node | vSAN HCI                                   |   |
| Additional information | <a href="#">VxRail E660 3D Viewer</a><br><a href="#">VxRail E660, E660F and E660N Technical Specifications</a> |                            |  |   |

## VxRail P670/F/N

| Node                   | P670  |  |   |
|------------------------|---|--|---|
| Chassis                | R750 24 x 2.5" drive bays<br>R750 28 x 2.5" drive bays  | R750 24 x 2.5" drive bays  |   |
| vSAN type              | OSA   |  | ESA   |
| Storage type           | All-flash   | All-NVMe   |   |
| CPU                    | Single or dual Intel Xeon Scalable Gen 3  | Dual Intel Xeon Scalable Gen 3   |   |
| Memory                 | 64 GB to 4096 GB  | 128 GB to 4096 GB  |   |
| Storage class memory   | 128 GB to 8192 GB<br>Intel Optane 200 Series  | 256 GB to 8192 GB<br>Intel Optane 200 Series   |   |
| Cache drives           | Up to 1600 GB SAS<br>400 or 800 GB Optane<br>Up to 3200 GB NVMe   | 400 or 800 GB Optane<br>Up to 3200 GB NVMe   | N/A   |
| Storage capacity       | Up to 184 TB  | Up to 322 TB   | Up to 368 TB  |
| Storage controller     | HBA355i or PERC H755  | N/A  |   |
| Onboard networking     | Dual or quad 25 GbE or<br>Dual or quad 10 GbE   |  | Dual or quad 25 GbE                                       |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE or<br>Up to 3x: Dual or quad 10 GbE                   |  | Up to 2x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE |
| Fibre channel          | Dual port 16Gb / 32Gb HBA   |  |   |
| GPU                    | N/A   | Up to 2x: NVIDIA H100 or<br>Up to 2x: NVIDIA L40 or<br>Up to 2x: NVIDIA A40 or<br>Up to 2x: NVIDIA A30 or<br>Up to 2x: NVIDIA A16 or<br>Up to 3x NVIDIA L4 or<br>Up to 2x: NVIDIA A2 |   |
| Deployment flexibility | vSAN HCI<br>Dynamic node  | vSAN HCI   |   |
| Additional information | <a href="#">VxRail P670 3D Viewer</a><br><a href="#">VxRail P670, P670F, and P670N Technical Specifications</a> |  |   |

## VxRail V670

| Node                   | V670  |
|------------------------|---|
| Chassis                | R750 with 24 x 2.5" drive bays  |
| vSAN Type              | OSA   |
| Storage Type           | All flash   |
| CPU                    | Dual Intel Xeon Scalable Gen 3  |
| Memory                 | 128 GB to 4096 GB   |
| Storage class memory   | 256 GB to 8192 GB<br>Intel Optane 200 Series  |
| Cache                  | 800 or 1600 GB SAS<br>400 or 800 GB Optane<br>Up to 3200 GB NVMe  |
| Storage capacity       | 161 TB SAS  |
| Storage controller     | HBA355i or<br>PERC H755 with RAID 1, 5, 6, 10, 50, 60   |
| Onboard networking     | Dual or quad 25 GbE or<br>Dual or quad 10 GbE   |
| Networking             | Up to 2x: Dual 100GbE or<br>Up to 3x: Dual or quad 25 GbE or<br>Up to 3x: Dual or quad 10 GbE   |
| Fibre channel          | Dual port 16Gb / 32Gb HBA   |
| GPU                    | Up to 2x: NVIDIA H100 or<br>Up to 2x: NVIDIA L40 or<br>Up to 2x: NVIDIA A40 or<br>Up to 2x: NVIDIA A30 or<br>Up to 2x: NVIDIA A16 or<br>Up to 3x: NVIDIA L4 or<br>Up to 6x: NVIDIA A2 |
| Deployment flexibility | vSAN HCI<br>Satellite node<br>Dynamic node  |
| Additional Information | <a href="#">VxRail V670F Technical Specifications</a>   |

## VxRail S670

| Node                   | S670   |
|------------------------|--|
| Chassis                | R750 with 12 x 3.5" front drive bays plus 4 x 2.5" rear drive bays |
| vSAN Type              | OSA  |
| Storage Type           | Hybrid   |
| CPU                    | Single or dual Intel Xeon Scalable Gen 3                           |
| Memory                 | 64 GB to 4096 GB   |
| Storage class memory   | N/A  |
| Cache drives           | Up to 1600 GB SAS<br>400 or 800 GB Optane<br>Up to 3200 GB NVMe    |
| Storage capacity       | Up to 144 TB NL SAS  |
| Storage controller     | HBA355i  |
| Onboard networking     | Dual or quad 25 GbE or<br>Dual or quad 10 GbE                      |
| Networking             | Up to 3x: Dual or quad 25 GbE or<br>Up to 3x: Dual or quad 10 GbE  |
| Fibre channel          | Dual port 16Gb / 32Gb HBA  |
| GPU                    | N/A  |
| Deployment flexibility | vSAN HCI   |
| Additional information | <a href="#">VxRail S670 Technical Specifications</a>               |

## Dell Technologies Services for Dell VxRail\*

### Deployment Services

|                                      |  |
|--------------------------------------|--|
| <b>ProDeploy for Enterprise</b>      | Accelerate technology adoption with expert deployment designed for your environment. Includes a site readiness review, 24x7 deployment hours, onsite or remote installation, disposal of packaging materials, remote installation and configuration of system software and information transfer to technical support team. |
| <b>ProDeploy Plus for Enterprise</b> | Accelerate even the most complex deployments. Includes all the above, plus a designated Support Service Manager, onsite installation & configuration of system software, 30-days post deployment configuration assistance, and training credits for Dell Education Services.   |
| <b>Residency Services</b>            | Specialized, certified VxRail experts to help you quickly adopt and integrate VxRail Hyperconverged Infrastructure. Option for onsite, remote, and short-term engagements.   |
| <b>Data Migration for Enterprise</b> | Consistent, repeatable, dependable process to plan and manage data migration projects. Migrate data from existing Dell hardware, from third party hardware, and from onsite or public clouds.  |
| <b>Data Protection services</b>      | Implementation of Data Protection Suite for VMware, Configuration for Data Domain Virtual Edition, or Implementation of RecoverPoint for Virtual Machines.   |
| <b>Stretched Cluster services</b>    | Implementation of stretched clusters, which provide a redundant system to help prevent data lost due to system failures or catastrophic events.  |
| <b>Top-of-Rack switch</b>            | Installation & Implementation for Top-of-Rack switch   |

### Support Services

|  |  |
|--|--|
| <b>ProSupport for Enterprise</b>                               | One source for comprehensive data center hardware and software support. Includes 24x7 remote technical support, next business day or 4hr mission critical onsite support, 3 <sup>rd</sup> party collaborative assistance, access to software updates.  |
| <b>ProSupport Plus for Enterprise</b>                          | Single source of system-level support. Includes all the above, plus priority access to specialized support experts, predictive detection of hardware failures, 3 <sup>rd</sup> party software support, and assigned service account manager, proactive assessments and recommendations, and proactive systems maintenance.   |
| <b>ProSupport One for Enterprise</b>                           | Offers flexible site-wide support for large and distributed data centers with more than 1,000 assets. When you choose ProSupport One for Data Center, you'll get: <ul style="list-style-type: none"> <li>• Designated senior ProSupport One technical and field engineers who are trained on your environment and configurations</li> <li>• Flexible on-site support and parts options that fit your operational model</li> <li>• A tailored support plan for your operations staff</li> </ul> |
| <b>Optimize for Infrastructure</b>                             | Year-round guidance on the operational health of your systems. Year-round, in-depth analysis and strategic guidance to keep your systems optimized and configured for continuous peak performance  |
| <b>Keep Your Hard Drive/Keep your Component for Enterprise</b> | Maintain control of your highly sensitive data by retaining possession of failed drives or components when receiving replacements without incurring additional costs   |
| <b>Data Sanitization and Data Destruction for Enterprise</b>   | Secure data on retired, returned, or redeployed systems. Data Sanitization renders data unrecoverable through a process of overwriting the data. Data Destruction physically destroys the device.  |
| <b>Technical Account Manager service</b>                       | TAMs for VxRail can be purchased to help in areas like Infrastructure Guidance and/or Designated Remote Support.   |
| <b>Onsite Diagnosis</b>  | Onsite troubleshooting on your behalf by a skilled technician to any site <ul style="list-style-type: none"> <li>• Skip phone-based hardware troubleshooting and have a technician dispatched directly to your site</li> <li>• Save time and resources, let our experts troubleshoot and diagnose hardware issues for you</li> </ul> <p>Avoid the need to reallocate IT staff to satellite locations or unmanned data centers</p>  |
| <b>Hardware Upgrade services</b>                               | Installation of physical and logical components of hardware upgrades. Includes node expansions (adding nodes to an existing cluster), storage expansions (adding drives to existing VxRail nodes) and hardware expansions (adding hardware components to existing VxRail nodes).   |

\*Availability and terms of Dell Technologies Services may vary by region and by product.



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