

Optimize Enterprise Data Protection for VxRail

Discover Dell EMC data protection options for Dell EMC VxRail

Comprehensive Data Protection

- Gain confidence in the simplicity and agility of public cloud with the security and control of an on-premises infrastructure
- Leverage the same VMware technology; leverage existing skill sets
- Utilize familiar UIs such as VMware vCenter and NSX Manager
- Provision and monitor resources across ecosystems with VMware's hybrid cloud control plane
- One stop cloud protection for VxRail with PowerProtect DP series

Simplify and protect your infrastructure

As customers look to create scalable hybrid cloud platforms that help drive innovation and competitive differentiation, Dell EMC data protection and Dell EMC VxRail can support turnkey IT and digital transformation for your organization.

Dell EMC VxRail accelerates and simplifies IT transformation through standardization and automation. With VxRail, you don't just deploy a server, you transform your infrastructure. Additionally, Dell EMC data protection paired with VxRail is an effective way of bringing simplicity to protecting production workloads. Doing away with silos, VxRail allows organizations to bring their backup infrastructure together into a single solution, eliminating compatibility issues, and enabling quick and easy deployment and scaling of the backup and recovery environment.

On the matter of VMs, seamless integration across the edge, core and cloud has changed the way data protection is managed. Does your solution simplify and scale data protection for your VMware environments?

Modern and flexible data protection solutions

Dell EMC's data protection solutions for VxRail are ideal for any organization looking for a next-gen IT environment. VxRail systems with Dell EMC data protection provide simple, fast and efficient protection of data and applications at the edge, core and cloud.

VxRail, a jointly engineered solution between VMware and Dell Technologies, transforms IT faster. VxRail consolidates compute, storage and virtualization with end-to-end lifecycle management. VxRail customers see a significant reduction in time spent on infrastructure deployment tasks. VxRail's resilient architecture protects the integrity of virtual machines (VMs) as well as the individual profiles for each VM.

With VxRail, Dell EMC can meet any RPO/RTO service level objective and covers the widest ecosystem of applications and environments. There are several options for VxRail depending on an organization's data protection and recovery strategy.

1. **Data Protection for VxRail with RecoverPoint for Virtual Machines (VMS)** is included with VxRail (5 VMs per single node appliance and 15 per G Series appliance) and protects VMs at VM level granularity with local and remote replication for recovery to any Point-in-Time (PiT) on-premises.
2. **Data protection for VxRail with our DD series appliances and our data protection software** provides industry-leading deduplication, scalability, reliability, performance, unparalleled data integrity to ensure reliable recovery, and a broad ecosystem of backup and archive applications.

Efficient, Reliable and Proven

- Up to 38% faster backups and up to 45% faster restores for PowerProtect appliances¹
- Up to 65x deduplication and up to 30% higher data compression with PowerProtect appliances²
- Up to 60K IOPS for up to 64 VMs for instant access and restore with PowerProtect appliances³
- Implement a cloud consumption model delivered as-a-service for data center and edge locations
- Peace of mind data protection for modern workloads
- Unified, best of breed solutions through collaboration with VMware
- The same tools for both VM and containerized workloads; leverage existing skill sets
- Ensure business continuity and disaster recovery
- Reduce risk by managing VMs and containers centrally

3. **Data protection for VxRail with the DP series appliances, our next-gen integrated appliance**, combines protection storage and protection software in a single appliance and delivers backup and recovery for VxRail - plus cloud-readiness for disaster recovery and long-term retention to the public cloud.

Backup and recovery included

Data protection capabilities are included with VxRail and significantly enhance VxRail's value. With its tight VMware integration, RecoverPoint for Virtual Machines protects VMs with VM-level granularity. Its VMware vSphere HTML plug-in empowers vAdministrators to protect single or multiple VMs locally or remotely to the target site; perform automated discovery, provisioning and orchestration for DR test; failover and failback to any PiT; and advanced perform orchestration (e.g., VM power-up sequencing). Leveraging CGs and group sets, vAdministrators can recover to a selected PiT with consistency across interdependent applications that span VMware ESX clusters. For example, businesses can take advantage of this powerful feature to properly restore the operation of an end-to-end business transaction process that includes a sales order system, payment transactions, inventory management and supply chain management, all deployed in VMS.

Optimize data protection for VxRail with DD series

All data and applications need to be protected regardless of where they live, against whatever might happen, and at the right service level based on business value. For customers facing explosive data growth in their data centers, traditional data protection become inefficient, expensive, complex, and require multiple vendors. Data protection for VxRail with our DD series appliances and our data protection software (Data Protection Suite or PowerProtect Data Manager) can simplify these complexities through integration, scalability, and automation to empower data owners with the necessary tools to meet the needs of fast-growing organizations of any size. PowerProtect DD Virtual Edition (DDVE) is a software-defined data protection solution of DD series that that scales up to 256TB in cloud. With deduplication ratios of up to 50x, storage footprint is greatly reduced lowering overall TCO. Cloud Tier, a feature of DD series, can scale up to 2x the max capacity of the active tier of a DD series appliance (Up to 2PB).***

With DD encryption, data in the cloud remains secure. DDVE is fast and simple to download, deploy, and configure. DDVE eliminates the complexity of data growth and can be up and running in minutes on VxRail. DDVE also delivers increased transactional and operational efficiencies, reliability and lower TCO by utilizing object storage in addition to block storage.

One stop cloud-protection for VxRail starts with our DP Series

The fastest way to transform your infrastructure is with our DP series for VxRail. Designed to meet backup, archive, disaster and cyber recovery needs for organizations of all sizes, these one-stop cloud data protection appliances offer a low cost-to-protect solution for organizations of all sizes.

The DP series is an all-in-one backup appliance that reduces the complexity of managing multiple data silos, point solutions and vendor relationships. The DP series simplifies deployment and management—while delivering powerful, enterprise-grade data protection capabilities for small, mid-size and enterprise organizations. It is an integrated solution that offers complete backup, replication, recovery, deduplication, instant access and restore, search & analytics, seamless VMware integration — plus, cloud readiness with disaster recovery (DR) and long-term retention (LTR) to the cloud — all in a single appliance. With the DP series, customers reduce their time-to-protect and become more agile with a solution that's fast, protected more efficiently, can be recovered quickly and is reliable.

SIMPLE, SCALABLE

Up to 38% faster backups		Up to 45% faster restores
Unified, best of breed solutions through collaboration with VMware		

The benefits of cloud economics

The elasticity and cost-effectiveness of the public cloud are perfect complements to data protection and VxRail. The impact of cloud economics is powerful with cloud disaster recovery solutions. Cloud Disaster Recovery (Cloud DR), an add-on capability for Data Protection Suite, PowerProtect Data Manager, DD series and DP series, Cloud DR enables VM-based workloads to failover to cloud in 3 clicks and failback in 2.⁴ At very low cost, CDR delivers backup-class RPO (24 hours) and RTO (0.5-2 hours). In the DR-to-cloud use case, the only cost to maintain your DR position is that of keeping copies of your most recent backup restore points on cloud object storage. You can further reduce cost by compressing and de-duping these copies. An ideal DR solution for workloads running on VxRail, Cloud DR delivers operational management efficiencies with its simple deployment and ease of use.

Trusted Dell Technologies partnership

Dell EMC data protection for VxRail ensures that you can maintain governance, compliance and security, even when backup responsibilities are decentralized, as organizations drive digital transformation. And as organizations continue to redefine what cloud first and hybrid cloud looks like as an as an IT operating methodology, the Dell Technologies and VMware relationship delivers the right infrastructure to address each underlying need from datacenter to cloud to edge, with technology solutions that include file storage to HCI to multi-cloud data protection.

Dell Technologies and VMware offer unified, best of breed solutions. But the partnership is not just technology, it is an approach to IT simplification and modernization. Dell Technologies is a trusted advisor and essential technology vendor that can help every organization build its own cloud, one that adapts to the business with flexibility in implementation across the entire portfolio. Furthermore, Dell Technologies and VMware provide a single source for support from pre-sales to design consultations to technical assistance after deployment.

For more information, www.delltechnologies.com/VMwareProtection

1. Based on Dell EMC internal testing with DD Boost protocol on DD9900 and DP8900 with DDOS 7.2 vs. DD9800 and DP8800 with DDOS 7.2, April 2020. Actual results will vary.
2. Based on Dell EMC analysis of field telemetry from PowerProtect DD series appliances, October 2020. Results applied to PowerProtect DD and DP series appliances. Results will vary.
3. Based on Dell EMC internal testing using 8KB 100% read to measure peak IOPS, performed on PowerProtect DD9900 and DDOS 7.2, July 2020. Retest performed on DD9900 within DP8900, September 2020. Actual results will vary.
4. According to Dell Internal Testing, February 2020.