

# Dell PowerFlex with Dell VxRail Dynamic Nodes – A Dynamic Duo

Managing IT infrastructure in today's rapidly evolving business landscape presents significant challenges. Many businesses are actively navigating new and emerging workloads while still needing to support traditional workloads, all with varying SLAs and performance characteristics. With PowerFlex as the primary storage, VxRail dynamic nodes can address extreme workload requirements and deliver consolidation efficiencies otherwise out of reach for traditional VMware vSAN-based solutions.



## Optimizing outcomes for a broader set of workloads

With PowerFlex SDS, businesses can effectively address workloads with diverse performance profiles. PowerFlex scale-out architecture can pool available storage and network resources, delivering extreme IO and throughput performance for a broad set of workloads. The architecture scales the performance linearly and predictably to 1000's of nodes while maintaining sub-millisecond latency. And with the self-healing capabilities, PowerFlex can recover and rebuild from drive or node failures without disrupting the workloads. This ensures extreme resilience for your critical applications with up to 99.9999% availability.

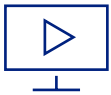
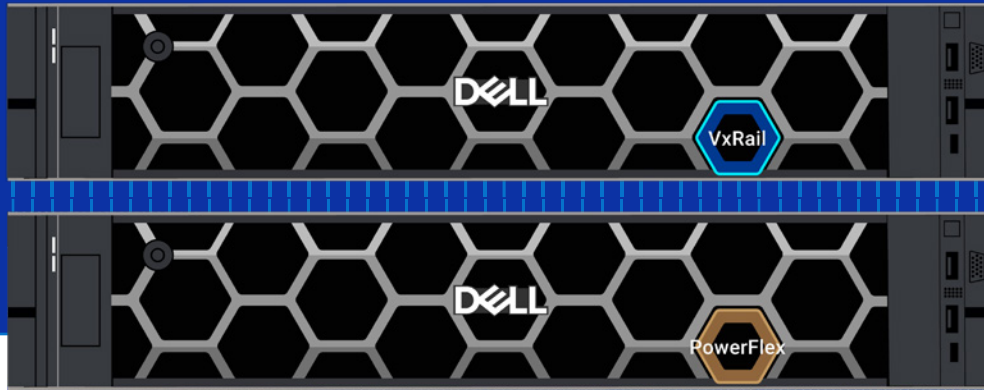


## Scale more precisely

VxRail dynamic nodes are compute only nodes that enable storage flexibility by leveraging Dell external storage arrays such as Dell PowerFlex SDS as primary storage in VxRail vSphere environments. This allows you to scale compute and storage asymmetrically based on evolving workload demands, especially as data volumes continue to explode and customers adopt new and innovative artificial intelligence (AI) use cases to optimize business outcomes.

Not only do VxRail dynamic nodes enable independent storage scaling, but by shifting the storage services to external systems, resource hungry operations are also offloaded. This allows the VxRail dynamic node resources to be fully devoted to compute workloads, helping improve workload performance and consolidation density. Plus, it eliminates data lock in with open and flexible shared SDS for investment protection and choice.

This ultimately expands deployment configurations on standardized technology to address more data-centric workloads for those that need enterprise-grade performance, scalability, and resiliency.



## Common operations

The VxRail dynamic node delivers the same VxRail HCI System Software operational efficiencies including guided wizard-based deployment, automated lifecycle management, and infrastructure operation automation all through familiar vCenter user interface. This gives you a consistent operating experience across your infrastructure and delivers the same curated experience and deep VMware integration for a seamless HCI experience including managing the VxRail dynamic node through the native VxRail Manager plug-in for vCenter. Operations are simplified and streamlined with automated lifecycle management. Plus, VxRail is backed by extensive VxRail testing, optimization and validation ensuring your entire VxRail deployment stays in a continuously validated state.



## Greater performance, agility, and simplicity

Modern IT demands streamlined operations, enhanced performance, and cutting-edge innovation without all the complexity. VxRail dynamic nodes address a broader range of workloads optimizing performance and resource utilization while ensuring simplified management. IT teams can adapt to changing business requirements efficiently, enhancing agility and scalability within their VMware environments. Take advantage of Dell external software defined storage to address data centric workloads, optimize performance on your specific needs, and deliver efficiency without compromise.



Learn more about Dell [PowerFlex](#) and [VxRail dynamic nodes](#)



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