

TOP REASONS TO CHOOSE DELL EMC POWERFLEX FOR THE MODERN DATACENTER

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PowerFlex software-defined storage combines compute and high-performance storage resources in a managed unified fabric to deliver flexibility, elasticity, and simplicity with predictable performance and resiliency-at-scale for modern datacenters.

1 | Unparalleled Flexibility and Scale

PowerFlex allows you to deploy and scale on your terms. It offers flexibility to choose your deployment architecture, whether Two Layer (Server SAN), HCI, storage only or mixed, in a single scalable deployment. It supports a broad range of operating environments – bare metal OS, hypervisors and container management tools - on a single platform. This enables you to choose the environment that best meets the application requirements and consolidate mixed-application workloads on shared infrastructure. PowerFlex can scale from just a few nodes to hundreds, on-demand and non-disruptively, with performance and throughput scaling linearly. You can scale by adding storage, HCI or compute nodes, flexibly, to meet your exacting requirements. PowerFlex also offers flexible consumption options, with rack, appliance and Ready Nodes.

2 | Simplicity and Automation

PowerFlex offers robust toolset for simplifying IT operations for the entire infrastructure. PowerFlex Manager offers tools for IT operations and lifecycle management that automate infrastructure workflows, boosting IT efficiency and agility while simplifying compliance. Further, its self-healing, self-balancing architecture automatically rebalances resources while mitigating impact of failures, eliminating common storage management overhead. PowerFlex rack offers integrated networking with professional deployment, simplifying deployment operations. PowerFlex also supports standards-based open APIs, making it a breeze to integrate with third party tools and custom workflows.

3 | Extreme Performance and Enterprise Availability

PowerFlex delivers massive performance with the architecture that pools large set of resources and eliminates bottlenecks in the system, delivering millions of IOPs at sub-millisecond latency. Dell Technologies lab testing demonstrates that PowerFlex delivers leading-edge performance for enterprise applications, including high-performance databases, big-data analytics and AI / ML workloads. PowerFlex also delivers mission-critical Six 9's availability for your high-value workloads with multiple protection groups and fast rebuilds.

Application Workload	PowerFlex Performance Outcomes
Oracle RAC	10 Million TPM with average latency of 1 millisecond with 8RU 1 Million IOPs with average latency of 1 millisecond with 6RU
Microsoft SQL Server	8 Million TPM with average latency of 1 millisecond with 8RU
Elastic Stack	1 Billion indexing events in 3 hours with 7RU
Cassandra DB with Kubernetes	300,000 operations/sec with 8RU

4 | Rich Solutions Ecosystem

PowerFlex is optimized and validated for a broad set of enterprise workloads ranging from Oracle, Microsoft SQL Server, SAP HANA and Cassandra MongoDB, to Splunk, SAS, Elastic Stack and Epic. Dell Technologies lab tests demonstrate leading performance across workload categories. Additionally, PowerFlex has a rich ecosystem of cloud automation and container management tools that include VMware Cloud Foundation, OpenStack, Red Hat OpenShift, Kubernetes, Docker and Google Anthos among others. This helps seamlessly deliver private and multi-cloud service models, further boosting IT agility.

5 | Dell Technologies – The Trusted Partner for Your Modernization Journey

PowerFlex is engineered, deployed and supported as one system by Dell Technologies, minimizing risks in implementations and delivering predictable outcomes. PowerFlex customers benefit from Dell offerings in the following areas:

- Flexible deployment with [Dell Technologies Professional Services](#)
- Maximize investments, safeguard the future and deliver guaranteed outcomes with [Dell's Future-Proof Program](#)
- Financing options with [Dell Financial Services](#)
- Proven, tested solutions for [Security](#) and [Data Protection](#)

PowerFlex Manager

Comprehensive IT Operations Management (ITOM) software; manages all the compute, networking, and operations which support the PowerFlex software



PowerFlex rack

Compute & high performance storage with integrated networking at rack scale. Scales to hundreds of nodes and racks.

PowerFlex appliance

Compute & high performance storage. Scales to hundreds of nodes. Add to customer's existing networking



PowerFlex

Software-defined block-storage service that enables a scale-out storage infrastructure using X86 hardware nodes.

Dell EMC PowerFlex Family



[Learn more](#) about Dell EMC PowerFlex solutions



Contact a Dell EMC Expert

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