TOP REASONS

WHY CUSTOMERS CHOOSE
DELL POWERFLEX
SOFTWARE-DEFINED INFRASTRUCTURE

PowerFlex is an unbounded software-defined infrastructure platform designed to maximize IT flexibility and boost business agility by optimizing a broad set of operating and hyperscaler platforms while enhancing automation and delivering exceptional workload outcomes.

1 | Unbounded software-defined infrastructure for unconstrained consolidation

PowerFlex is a powerful platform for broad consolidation initiatives. PowerFlex unifies the delivery of block storage, file storage[1] and compute resources in an engineered integrated system, while supporting a wide range of hypervisors and operating systems on a common platform. PowerFlex also utilizes standards based NVMe/TCP connectivity[1]. These capabilities enable organizations to optimally consolidate a diverse set of workloads with varying requirements and operating environments.

2 | Adaptable architecture boosts IT responsiveness

PowerFlex scales compute and storage resources flexibly and non-disruptively to address specific bottlenecks. Rapidly compose and recompose resource pools to address changing business needs. Break through traditional limitations, scale your infrastructure, and grow and shrink resource pools as needs dictate, without complex planning.

3 | Smart optimization ensures extreme performance and scalability

PowerFlex software driven optimization consolidates resources across nodes while optimizing data path and placement, resulting in unrestricted IO and throughput performance with sub-millisecond latency. The architecture can linearly scale to 1000s of nodes, ensuring optimal outcomes whether you are modernizing a high-performance database or consolidating large application landscapes.

4 | Self-healing capabilities deliver uninterrupted services

PowerFlex systems are designed to sustain multiple subsequent failures without service outages or performance degradation. PowerFlex continuously monitors resources and rapidly rebuilds datasets residing on failed drives or nodes, ensuring uninterrupted service availability while delivering compliance with performance targets.

5 | Intelligent insights and unified management simplify operations at scale

PowerFlex Manager, a unified management toolset for PowerFlex systems, is designed to simplify IT Operations and lifecycle management tasks with extensive automation that reduces administrative time by up to 95% and the number of steps involved in operations by over 77%[2]. Integration with CloudIQ intelligent insights further simplifies monitoring of distributed multi-location PowerFlex deployments by providing a seamless cloud-based AIOps mechanism.

6 | Broad hyperscaler support maximizes multi-cloud agility and flexibility

PowerFlex offers choice and freedom when it comes to multi-cloud deployments. With support for all major hyperscaler platforms, including AWS EKS Anywhere, Google Cloud Anthos, and Azure Arc-enabled Kubernetes, you can simplify your multi-cloud operation across multiple hyperscaler cloud platforms with a unified on-premises PowerFlex infrastructure.

7 | Comprehensive tools enhance DevOps productivity and IT agility

In addition to hyperscaler support, PowerFlex supports a wide range of on-premises container orchestration platforms on bare metal or hypervisors including Red Hat OpenShift, SUSE Rancher, and VMware Tanzu. Through Dell Container Storage Modules (CSM) and CSI drivers, PowerFlex simplifies storage operations for Kubernetes. Additionally, PowerFlex offers a rich and out-of-the-box toolset that includes PowerFlex REST APIs, PowerFlex Ansible modules, and Dell AppSync to automate DevOps, infrastructure management, and DBA workflows.

8 | Rich validated ecosystem optimizes workload execution

PowerFlex is optimized and validated for a broad set of enterprise workloads to deliver exceptional performance outcomes. PowerFlex provides industry leading performance and predictability for IO-intensive transactional or throughput-intensive analytics workloads while minimizing hardware footprint.

9 | Enterprise data services simplify protection and compliance

PowerFlex provides enterprise data services that include compression, encryption, snapshots and replication to help meet specific workload and corporate requirements. The PowerFlex solution with Dell PowerProtect Cyber Recovery further enhances the resiliency and protection of these mission-critical IT assets.

10| Dell Technologies - your trusted partner for long-term success

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 on-demand OPEX consumption with APEX Flex on Demand and APEX Datacenter Utility
- Accelerated enterprise technology adoption with Dell ProDeploy Enterprise Suite
- Comprehensive support for complex environments with Dell ProSupport Enterprise Suite and Optional Support Services for Enterprise
- 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

Learn more about
Dell PowerFlex

Contact a Dell expert
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