

10 Reasons Why Clients Choose Dell PowerFlex for Software-Defined Infrastructure

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

What is “Software-Defined Infrastructure?”

Software-defined infrastructure services like Dell PowerFlex provide intelligent software-driven automations of network data, creating an adaptable foundation for managing data & resources in complex IT environments.

Features of Dell PowerFlex:

- Powered by Intel Xeon Processors
- Enterprise databases & workloads
- Scalable throughput & IO performance
- Block and file storage
- Modern containerized applications

Benefits of Dell PowerFlex:

- Rapidly & cost-effectively deploy Big Data workloads
- Great for performance-hungry workloads such as AI & hybrid environments
- Seamless data mobility & agility

#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, & compute resources in an engineered integrated system, while supporting a wide range of hypervisors & operating systems on a common platform. PowerFlex also utilizes standards based NVMe/TCP connectivity. These capabilities enable organizations to optimally consolidate a diverse set of workloads with varying requirements & operating environments.

#2. Adaptable architecture boosts IT responsiveness

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

#3. Smart optimization ensures extreme performance & scalability

PowerFlex software-driven optimization consolidates resources across nodes while optimizing path data & placement, resulting in unrestricted IO & 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 service

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

#5. Intelligent insights & unified management simplify operations at scale

PowerFlex Manager, a unified management toolset for PowerFlex systems, is designed to simplify IT operations & lifecycle management tasks with extensive automation that reduces administrative time by up to 95% & the number of steps involved in operations by over 77%. 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 & flexibility

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

#7. Comprehensive tools enhance DevOps productivity & 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, & VMware Tanzu. Through Dell Container Storage Modules (CSM) & CSI drivers, PowerFlex simplifies storage operations for Kubernetes. Additionally, PowerFlex offers a rich & out-of-the-box toolset that includes PowerFlex REST APIs, PowerFlex Ansible modules, & Dell AppSync to automate DevOps, infrastructure management, & DBA workflows.

#8. Rich validated ecosystem optimizes workload execution

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

#9. Rich validated ecosystem optimizes workload execution

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

#10. Dell Technologies - Your trusted partner for long-term success

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

- Flexible on-demand OPEX consumption with [APEX Flex on Demand](#) & [APEX Datacenter Utility](#)
- Accelerated enterprise technology adoption with [Dell ProDeploy Enterprise Suite](#)
- Comprehensive support for complex environments with [Dell ProSupport Enterprise Suite](#) & [Optional Support Services for Enterprise](#)
- Maximize investments, safeguard the future, & deliver guaranteed outcomes with [Dell's Future-Proof Program](#)
- Financing options with [Dell Financial Services](#)
- Proven, tested solutions for [Security](#) & [Data Protection](#)

Questions About Dell PowerFlex or other Dell Technologies products & services?

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