D&LLTechnologies

Top Reasons

Why Small and Medium Businesses Choose PowerVault for High Value Workloads



PowerVault ME5 provides simple, fast, and affordable storage tailored for small and medium-sized businesses (SMBs) with growing demands similar to those of larger enterprises. ME5 is specifically designed and optimized for SAN and DAS application workloads, offering excellent performance, scalable capacity, and streamlined management to handle a variety of workload types. It's also validated for use with Dell PowerEdge Servers, ensuring fast, uncompromised access to application data.

1. High Performance Computing (HPC)

IT teams can achieve exceptional read/write performance, scalable capacity, and fast front-end connectivity by deploying High Performance Computing (HPC) solutions using PowerVault ME5 storage, Dell Networks, and Dell PowerEdge Servers. This integrated setup supports various parallel file systems, such as PixStor, BeeGFS, and NFS File Store, with small, medium, and large modular building block configurations supported by best practices and reference architecture documents. Additionally, Dell helps reduce the risks of implementing complex technologies by allowing IT staff to test, fine-tune, and validate cutting-edge HPC, AI, and Data Analytics systems in the Dell HPC and AI Innovation Lab before making a purchase.

2. Safety And Security (CCTV)

The growing demand for global surveillance has sparked the need for reliable, highly available, and adaptable storage solutions that can keep up with advancements in video technology, edge management, and the relentless increase in real-time video data. PowerVault ME5 offers an affordable and efficient solution, meeting the bandwidth, performance, and capacity demands of edge-based CCTV operations. With PowerVault ME5, you can support video streaming from hundreds of surveillance cameras, regardless of bit rate. Dell Safety & Security Labs, equipped with industry-leading technology from top safety and security vendors, ensure that all best-in-class physical security applications are validated with Dell's comprehensive portfolio of products and solutions.

3. Virtual Desktop Infrastructure (VDI)

PowerVault ME5 storage paired with Dell PowerEdge Servers provides an excellent infrastructure solution for small-scale VDI environments, ensuring a high-quality end-user experience when deploying persistent virtual desktops. With this setup, IT teams can centrally manage their VDI environment and launch up to 500 virtual desktops in under five minutes.

4. Virtualization

PowerVault ME5 and Dell PowerEdge Servers seamlessly combine to enhance and support VMware and Microsoft virtualization environments. One key benefit for customers selecting these platforms is Dell's comprehensive testing and validation of PowerVault and PowerEdge across various host operating systems, as well as VMware vSphere and Microsoft Hyper-V hypervisors.

5. Microsoft SQL Databases

Efficient storage performance is crucial for maintaining the availability and responsiveness of SQL Server databases, no matter the size of a company or IT organization. When storage performance lags, database queries are delayed, impacting overall efficiency. PowerVault ME5 eliminates these bottlenecks with capabilities like up to 8000,000 IOPs processing power, high read/write bandwidth rates, SSD read cache, and more—ensuring businesses stay productive, profitable, and ahead of the competition.

6. Backup and Recovery

SMBs looking for a reliable and cost-effective backup and archive solution often turn to PowerVault ME5 storage alongside Dell's Data Protection Systems (DPS). The PowerVault team has worked to validate and optimize interoperability, earning Veeam 12.3 Certification for PowerVault ME5. This certification enables SMBs to effortlessly and affordably integrate PowerVault ME5 with both Dell and third-party backup software solutions.

7. Select Edge Use Cases

PowerVault ME5 offers outstanding workload versatility with a focus on simplicity, speed, and cost efficiency. With over 112,000 systems deployed globally across 43,000+ customers, it supports a wide variety of Edge-based workloads while meeting a diverse set of performance and scalability demands for use cases such as Cloud Gaming, Oil and Gas Exploration, and CCTV systems.

PowerVault ME5 solutions stack

Flexible options with radical simplicity

USE CASE	HPC Storage	Safety & Security	Virtualization & VDI	Microsoft SQL Server	Backup & Recovery	Edge
BENEFIT	Affordability, Simplicity, Performance, Capacity, Throughput, Availability, Versatility					
VIRTUALIZATION	VMware vSphere; Microsoft Hyper-V; Citrix XenServer					
MANAGEMENT	PowerVault Manager: CloudIQ: VMware SRM; OME: Nagios Core & XI, CLI API, REST API					
INTEGRATION	SupportAssist; vSphere Plug-in; SRS; SRA Adapter; SM-S integration with SCVMM					
PROTECTION	Snapshots; Replication; ADAPT RAID; SED drives					
INFRASTRUCTURE	PowerVault Storage; Dell PowerEdge Servers; Dell Networks; Dell Monitoring Systems					



POWERVAULT ME5

Storage designed for emerging businesses – without compromise



Learn more about Dell PowerVault Storage



Contact a Dell Technologies Expert

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