Why Customers Choose to Connect Dell PowerEdge Servers with Dell PowerVault ME5 Storage

Adding external storage to servers can create many tangible benefits for SMBs. Separating servers from storage means you won't be faced with server upgrades or server swaps due to lack of capacity. With PowerVault ME5 controller-based arrays or JBOD, server upgrades and maintenance can occur without data disruption as data remains in place. PowerVault ME5, validated with Dell PowerEdge Servers and different host operating systems, give IT organizations a dynamic, high performance and scalable infrastructure for any size business – simply and economically.

1. Validated Server and Storage Configurations

Validated Dell PowerEdge and PowerVault configurations provide easier, faster, and lower-cost deployment for supporting several workloads including HPC, Safety and Security (CCTV), VDI and virtualization, Microsoft SQL, backup, Edge and many more. Dell Technologies provides pre-tested configurations including software, hardware, storage, and network components—along with documented best practice guides that enable you to start small and grow as the business requires additional capacity.

2. Versatile RAID Deployment

Combining PowerEdge and PowerVault ME5 platforms provides flexibility as to where RAID can operate and be managed for optimum and cost-effective performance. You can dedicate servers to applications and ensure your data is protected with hardware RAID either with an internal PERC card installed in the server or an external RAID array without sacrificing server performance cycles. PowerVault ME5 RAID controller preserves processing power, allows more space and speed to read and write data and works with any OS. If ADAPT RAID is used on the storage, then there's also the added benefit of faster drive rebuilds should one fail. Alternatively, PowerEdge PERC RAID offers reliability, low-cost performance and high-speed connectivity if JBODs enclosures are utilized.

3. Topology Flexibility

Together, PowerEdge and PowerVault ME5 support your choice of how you want to provision your topology with either SAN or DAS connectivity. Separating the compute and storage allows you to modularly grow while replacing PowerEdge when more memory or CPU is required and adding capacity to PowerVault ME5 as needed. Configure for DAS when you need better application performance than networked storage because the server does not have to traverse a network to read and write data. Configure for SAN so storage appears to be locally attached, improve application availability and data sharing with multiple data paths and preserve application performance on the server with storage data services being run on the array.
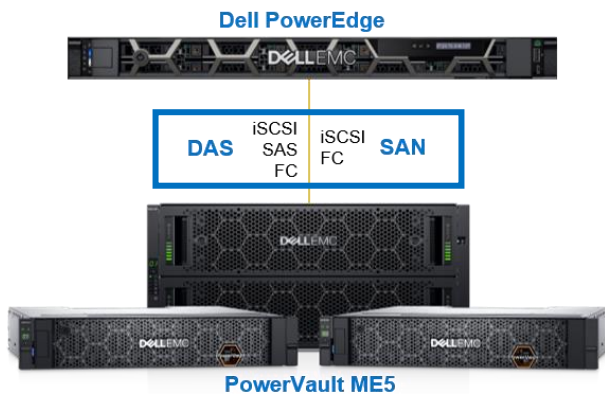
4. Unified Management Ecosystem

Easily manage PowerEdge and PowerVault ME5, as well as other Dell Technologies and third-party platforms from a single pane of glass. Several extensible management options are available including Dell OpenManage Enterprise (OME) and OME Nagios plug-in. Additionally, you can use iDRAC and CloudIQ for server and storage predictive analytics and health monitoring, respectively. The management options can be leveraged to speed time to repair, reduce monitoring efforts, accelerate new deployments and improve the end-user experience.

5. Find Value in Big Data Faster

When companies need to store, process and quickly access large amounts of data for analysis, they turn to Dell PowerEdge Servers connected to PowerVault ME5 storage. This infrastructure combination helps businesses reduce capex/opex of compute and dense data storage with affordable price/performance points. Dell servers and storage significantly enable rapid data capture and analysis to improve the speed of business. With Dell, you'll get flexible modularity that allows bandwidth and capacity growth with minimal components and no need to reconfigure eliminating business disruption.

6. Standardize on Service and Support

When customers combine PowerEdge Servers and PowerVault ME5 storage for running business solutions, they're immediately assured that a successful customer support team comes with them. There's never any finger pointing about where an issue resides – our highly trained service and support professionals will always deliver the best customer service experience in the industry. As your business undergoes rapid growth and must cope with all the changes that comes with it, Dell Technologies will be there – at all service levels. You just need to make one call - to Dell Technologies – your trusted partner.

Dell PowerEdge

DAS | iSCSI SAS FC | iSCSI FC | SAN

PowerVault ME5

Easily attach data power with compute power

- Simplify the challenges of server capacity expansion
- Business applications get high-speed access to data
- Multiple options for capacity expansion
- Standardize on Dell Services and Support
- PowerVault ME5 is PowerEdge 16G ready

[Learn more](#) about Dell PowerVault ME5   [Contact](#) a Dell Technologies Expert

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