

# IDEAL WORKLOADS FOR POWERSVULT ME4 STORAGE CUSTOMERS



# 5

Dell EMC PowerVault ME4 Series is a simple, fast and affordable storage array, purpose-built and optimized for accelerating SAN/DAS virtual workloads for any size business. PowerVault Storage is qualified with Dell PowerEdge Servers for effective, simplified and rapid solution deployment.

## 1 | High Performance Computing (Parallel File Systems)

Customers get powerful capabilities when they attach Dell PowerEdge Servers to highly available PowerVault ME4 storage for the ultimate high-performance computing experience. PowerVault ME4 supports HPC parallel file systems like PixStor and BeeGFS with modular building blocks in small, medium, and large configurations combined with best practices and reference architectures. With PowerVault ME4 storage, customers can flexibly scale throughput and capacity for optimum performance and throughput.

## 2 | Surveillance

The rise of global surveillance has created demands for reliable, available and flexible storage solutions to keep pace with advances in video technology and capacity growth. PowerVault ME4 storage provides a solid foundation as a video archive and capacity expansion solution that will keep pace with your surveillance needs. With PowerVault, customers get high throughput and scalability to support video from hundreds of surveillance cameras at any bit rate.

## 3 | Virtual Desktops

For VDI workloads, PowerVault ME4 storage with Dell PowerEdge Servers is the ideal combination to ensure a quality end user experience and maximize the cost of running persistent virtual desktops. Using this infrastructure combination, customers will be able to centrally manage their VDI environment and launch up to 1,300 virtual desktops in just under 22 minutes.

## 4 | Virtualization

Dell EMC PowerVault ME4 Series and Dell PowerEdge Servers are ideal for optimizing your VMware and Microsoft virtualization environments. The ME4 Series has been tested and validated with PowerEdge Servers running different host operating systems with vSphere and Hyper-V. Directly attaching ME4 to PowerEdge Servers simplifies the challenges of server capacity expansion and business applications get high-speed access to data.

## 5 | Backup/Recovery

When customers need reliable, low cost backup and recovery, they turn to PowerVault ME4 storage. We've simplified block-based data protection for SMBs and have Veeam certification for PowerVault storage. Now customers can easily and affordably connect PowerVault with Dell EMC and 3<sup>rd</sup> party backup solutions.

# PowerVault ME4 Storage

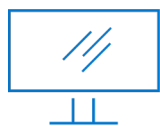
Entry level performance, scale and simplicity

	RBOD Models with RAID Controllers:			EBOD Expansion Enclosures <sup>1</sup>		
	ME4012	ME4024	ME4084	ME412	ME424	ME484
Configurations:	2U12 drives	2U24 drives	5U84 drives	2U12 drives	2u24 drives	5U84 drives
<b>Max Raw Capacity<sup>2</sup></b>	3.1PB	3.0PB	4PB	9 x 2U enclosures (behind ME4012/ME4024)		
<b>Min/Max Drives</b>	2/264	2/276	28/336	3 x 5U enclosures (behind ME4012/ME4024/ME4084)		
<b>Media</b>	Hybrid (0-100% Flash)					
<b>Protocols</b>	8/16Gb FC, 1/10Gb iSCSI, 12Gb SAS			12Gb SAS Backend		
<b>Data Protection</b>	Virtual Copy, Snapshots, Async Replication, SEDs					
<b>Performance</b>	Tiering, SSD Read Cache					
<b>Integration</b>	VMware Vcenter Plugin, SRM Plugin					
<b>Management</b>	PowerVault Manager					
<b>Architecture</b>	Thin provisioning, ADAPT, Internal Key Manager (encryption)					

## PowerVault ME4 Storage all-inclusive software

No costly licensing makes PowerVault easier to own, deploy and use

<b>ADAPT</b> Functionality enabling affordable capacity expansion & faster drive rebuild times.	<b>Thin Provisioning</b> Allocate and consume physical storage capacity as needed in disk pools	<b>SSD Read Cache</b> Increase execution speed of applications by caching previously read data	
<b>IP Remote Replication</b> Replicate data to any global location that includes mirroring thin provisioned pools	<b>FC Remote Replication</b> Replicate data to any global location that includes mirroring thin provisioned pools	<b>Snapshots</b> Recover files after accidental delete/alteration with point-in-time copies	<b>Auto-Tiering</b> Improve performance and efficiency with less hardware expense
<b>Volume Copy</b> Seamlessly clone volumes for re-purposing on different spindles and drives	<b>SED Drive Encryption</b> Render data useless to unauthorized users with drive-level encryption even if the drive has been removed from the enclosure		<b>vCenter/SRM; SMI-S with SCVMM</b> vCenter & SRM integration to move live VMs at scale between sites; Easily automate storage management running Hyper-V VMs
<b>PowerVault Manager</b> Native HTML5 management interface for configuring, provisioning, managing, monitoring and supporting a single PowerVault ME4 array		<b>CloudIQ</b> Cloud-native monitoring application that uses ML/AI and predictive analytics from telemetry gathered across thousands of systems to provide system health scores	
<b>Management Ecosystem</b> Integrate with Nagios Core/XI for auto-discovery, inventory and monitoring and provide increased scalability for unified datacenter management with OpenManage Enterprise integration		<b>SupportAssist</b> An embedded protocol connected to Dell EMC to help you proactively maintain the health of your PowerVault ME4 storage array or other Dell EMC device.	



[Learn More](#) about PowerVault solutions



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