

# Why Violin Is the Best Storage Choice for Hyper-V

In today's data-driven world, your virtualized IT infrastructure needs to keep your important applications—and your business—running at full speed at all times. As more of your enterprise applications are consolidated under Windows Server® Hyper-V®, delivering acceptable storage performance becomes more challenging and a potential impediment to your consolidation success.

Successful consolidation initiatives require high virtual machine (VM) density *and* performance; a requirement that legacy storage solutions fail to meet.

 Windows Server

**violin**  
MEMORY

# 10 Reasons

## To Run Your Hyper-V Applications on Violin All Flash Arrays

With Violin's patented All Flash Arrays, virtualized enterprise applications have storage that can meet the performance needs for a mix of virtual machine workloads. This means your consolidation initiatives can now achieve their full potential through higher VM density and application performance from existing server investments to maximize your ROI.

Accelerate your journey to a virtual data center and the cloud with Microsoft Windows Server Hyper-V and Violin All Flash Arrays.

## 1 Achieve Unmatched Virtual Machine Density and Performance

Violin All Flash Arrays overcome the I/O blender effect of virtualization. We have demonstrated over 1 million IOPS in a Hyper-V environment with a single array. Our all-flash arrays deliver high performance with operational simplicity. Ongoing storage performance mapping and tuning, disk groupings, and hot spots issues are things of the past. With our extremely low, sub-millisecond latency, you can achieve greater VM density with existing server resources.

## 2 Virtualize Business Critical Applications with Confidence

Consolidate more business critical applications and databases per server CPU core without compromising service levels. With 10x lower transactional latency compared with legacy storage systems, Violin all-flash solutions accelerate business critical workloads while delivering transformative data center economics.

## 3 Stay Online All the Time

Violin's patented Flash Fabric Architecture™ and vRAID technology ensure the integrity of data on our All Flash Arrays. Our Concerto and Windows Flash Array solutions feature clustered redundancies and all of our arrays feature hot spares to help you achieve 24x7 operational requirements with zero single points of failure.

## 4 Scale Non-Disruptively with Enterprise-Class Reliability

With built-in thin provisioning, dynamic storage expansion, and space-saving snapshot and cloning capabilities, Violin All Flash Arrays deliver the highest performance per usable terabyte of storage. Violin All Flash Arrays are built on flash-optimized vRAID technology to ensure data integrity and reliability; coupled with Tier-1 high availability and clustering for non-disruptive performance and capacity scaling.

## 5 Improve your Hyper-V Operations with Enterprise Data Services

Assorted Violin All Flash Arrays reduce costs through thin provisioning, deduplication, data compression, and space efficient snapshots. Available data protection options include replication, mirroring, and encryption, and some array clusters can scale-out up to 280 TB of raw capacity.

## 6 Reduce OPEX

With Violin All Flash Arrays, you can consolidate more applications per server to increase utilization and lower infrastructure spending. In addition, you can reduce electrical costs by at least 40% compared with SSD arrays (even more against hybrid/HDD solutions), decrease rack space by 80% and cooling expense by at least 40%.

## 7 Block or File, It's Your Choice

The Violin 6000 All Flash Array and Concerto 7000 All Flash Array deliver high-performance block-storage for your Hyper-V virtualization strategy. If instead you prefer the convenience of a NAS implementation, the Windows Flash Array delivers high-performance SMB-based storage for your Hyper-V virtualized workloads.

## 8 Freedom of Choice in Enabling Deduplication and Compression

Deduplication and compression can significantly improve storage efficiency for certain workloads. For file-based storage, the Windows Flash Array features volume-selectable low-overhead post deduplication and compression to maximize available storage for Hyper-V environments.

## 9 Freedom of Choice in Storage Deployment

Violin 6000 and Concerto 7000 All Flash Arrays deliver high-performance block-based storage. The Windows Flash Array delivers high-performance SMB-based storage that delivers the performance you would expect from a block implementation but with flexibility and ease of management, that file-based storage provides.

## 10 Pay-As-You-Grow Pricing

Certain Violin All Flash Arrays offer pay-as-you-grow pricing, a unique software license-based capacity expansion, so you can scale capacity without having to order and install it in advance. This enables you to more closely align CAPEX with the benefit received; you can non-disruptively scale in 8.8 TB increments from 17-35 TB or 52-70 TB.