PAVILION

Benefits

- Reduced data storage footprint by 50%

- Doubled the amount of SQL Server transactions

- Reduced storage management costs nearly 60% by deploying RoCE vs. Fibre Channel networking

- Dramatically simplified the process of scaling storage

Global Information and Insights Company Recoups Meaningful Dollars Per Day with Universally Unmatched Storage

A leader in credit reporting expands services into insurance and healthcare, allowing providers to find gaps in billing and recoup thousands of dollars each day. Leveraging Pavilion's unrivaled performance, ultra-low latency, and affordability with NVMe-oF RoCE, they doubled SQL Server transactions in the same amount of time and reduced server and storage footprint by 50%.

A Fortune 1000 global information and insights company is revolutionizing how data is used to help its partners find gaps and recoup previously unpaid fees. To meet this goal, they needed to design a storage solution to accommodate more than a petabyte of billing records and run analytics against the entire data set rather than importing and exporting batches of data that could be prone to errors.

They initially considered an upgrade to 64Gb/sec fibre channel networking and an All-Flash Array to their Microsoft SQL Server cluster. The solution was initially considered due to their need for both capacity and speed for their SQL Server data processing.

While the fibre channel solution met their performance requirements, they found that it limited their ability to scale performance and capacity over time, required significant resources to manage, and was nearly twice the cost of a Converged Ethernet system and only 50% of the performance in twice the footprint.

This customer approached Pavilion to them reimagine what a storage solution with a modern architecture designed from the ground up for NVMe and NVMe-oF. Together, we revolutionized their medical records processing and are returning significant value to the provider network while improving operational efficiency.
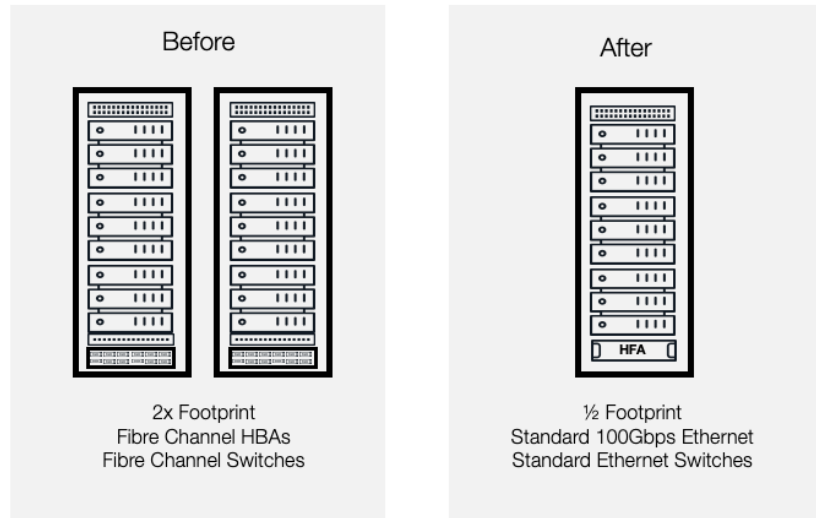
The Pavilion HyperParallel Data Platform™

They chose the Pavilion HyperParallel Data Platform to meet their current and future requirements. The Pavilion platform leverages a multi-controller architecture to deliver dramatically higher IOPs than traditional dual-controller designs. By taking advantage of NVMe RoCE, they get twice the data processing in the same amount of time while reducing data center footprint by more than 50%, providing space and power to deploy new applications.

Uniquely capable of delivering consistent, predictable high performance and ultra-low latency for block, file, and object workloads simultaneously, the Pavilion HyperParallel Data Platform provides industry-leading performance, density, scalability, and flexibility. With over 2 PB of capacity per array and able to deliver up to 120GB/s of throughout, 20M IOPS, and as little as 25μs of latency measured at the host, the Pavilion HyperParallel Data Platform delivers unmatched customer choice and control to scale their operations without limitation.

Powered by Pavilion HyperOS™

Designed for the most demanding environments, Pavilion HyperOS combines enterprise-class management, security, and data protection features with a highly intuitive GUI to ensure maximum availability and ease of use. An API driven approach ensures that the Pavilion HyperParallel Flash Array integrates easily within the datacenter. Designed from the ground up for NVMe and NVMe-oF, the Pavilion HyperOS enables the Pavilion HyperParallel Flash Array to deliver unmatched storage performance without the cost and complexity of traditional storage arrays.

Before

2x Footprint
Fibre Channel HBAs
Fibre Channel Switches

After

½ Footprint
Standard 100Gbps Ethernet
Standard Ethernet Switches

Results

Given the need for unlimited scale, performance and flexibility, the Pavilion HyperParallel Data Platform was the only solution that delivered the performance they needed to accelerate their SQL Server applications while reducing cost and complexity.

The customer avoided costly upgrades to their Fibre Channel Storage Area Network in addition to the overall performance increase. Using 100Gbps Ethernet and standard switching technology further reduced their Total Cost of Ownership.

"Pavilion's performance leveraging NVMe-oF using Windows was amazing and at a competitive price point," said the customer.

As a result of moving from a hybrid storage array to the Pavilion platform, the customer could reduce their storage management costs by as much as 30% while dramatically simplifying the process of scaling storage.