

Customer

- Internal Service Provider

Industry

- IT/DevOps

Use Case

- Containers as a Service

Challenge

- Application growth
- Agility
- Needing to “try” modern databases
- SSD cost growth

Solution

- Moved from DAS to Pavilion HyperParallel Data Platform

Results

- 66% reduction in power and cooling
- Halving of rack space
- 3X reduction in storage management TCO
- Ready for Infrastructure 3.0
- Identical performance to NVMe SSD configuration
- Linear scalability accommodates growth

Pavilion's NVMe-oF Storage Platform is perfectly aligned with our 'Infrastructure 3.0' initiative. We must decrease space, power and cooling by 50% while keeping the performance of NVMe SSDs as close to 100% as possible.

IT Manager

DevOps and Containers

Containers bring a range of capabilities to DevOps teams. Given the charter of rapid deployment, agile redeployment and need for new applications like NoSQL databases, a leading provider of consumer online services was unable to react quickly using traditional Rack-Scale Design with NVMe SSDs inside of their servers.

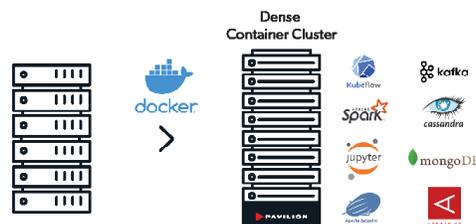
This client is an internal services team for a major international corporation. They saw that server-side NVMe SSDs delivered great performance and low latency, but after clusters were deployed for various workloads, the DevOps team could not quickly repurpose the systems to achieve their charter of agility for the organization. With a requirement to “try” modern databases across various teams, DevOps was faced with a mounting crisis of cost containment. Suddenly, the idea of offering a private cloud with Containers-As-A-Service to the company became the best approach.

The Pavilion HyperParallel Data Platform™

This DevOps team became heroes. Time-to-deployment for new applications was reduced by 50%. Improvements in storage utilization were immediately obvious as the Pavilion GUI allowed easy storage allocation, re-allocation and sizing. By implementing thin provisioning, the team could assure user groups that capacity was available in an “elastic” fashion previously not possible with DAS. To the surprise of the DevOps team, performance versus DAS did not change.

Pavilion brought agility back to a DevOps team that was becoming a target of the CFO due to a constant need to procure more hardware. Now the group can add/change/remove clusters and applications as needed while continuing the reap the performance benefits of Rack-Scale Flash.

Containers-As-A-Service



- Simplify the environment by leveraging a single, high-speed storage platform for delivering Containers-as-a-Service (CaaS)
- Deploy ‘storage-less’ 1U servers to deliver more container density per rack
- Save cost in several areas including hardware acquisition, rack space, power and cooling
- Pavilion’s Thin Provisioning support allows for less raw flash capacity to be installed
- Transition to Infrastructure 3.0

Find Out More

Pavilion shatters customer expectations and resulting organizational outcomes by revolutionizing data processing for modern AI/ML, HPC, Analytics, Enterprise Edge and other data-driven applications. The Pavilion HyperParallel Data Platform, powered by Pavilion HyperOS, delivers unmatched performance and density, ultra-low latency, unlimited scalability and flexibility, providing customers unprecedented choice and control. Learn why Fortune 500 companies and federal government agencies choose Pavilion. Visit www.pavilion.io or follow the company twitter at <https://twitter.com/PavilionData>