PAVILION

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 HFA

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.

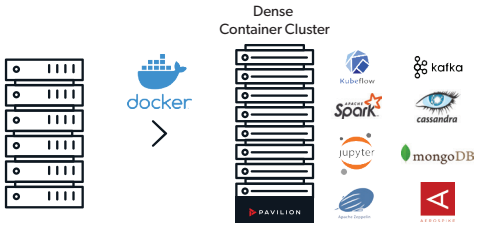
This client is an internal services team for a major international corporation. The saw that server-side NVMe SSDs delivered great performance and low latency, but after clusters were deployed for various workloads, the DevOps team could not quickly repurpose the systems to achieve their charter of agility 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.

Composed By Pavilion

This DevOps team became heroes. Time-to-deployment for new applications was reduced by 50%. Improvements in storage utilization were immediately obvious as Pavilion's 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 verses 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

The Pavilion HFA is defining the future of composable disaggregated NVMe-oF. Our system is an ideal part of a complete solution for Containers-as-a-Service. Our expertise is in simplifying and optimizing NVMe to make the impossible, possible. Taking the infrastructure to the next level, requires the "Midas touch" of local, proven experts. When storage is business-critical, there's no substitute for the guaranteed performance, functionality, high availability, and professional software support of a Pavilion HFA. We partner with leading organizations to design, implement and deliver a complete solution tailored to the environment. Contact us today to get in touch with our talented extended teams of professionals.

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