

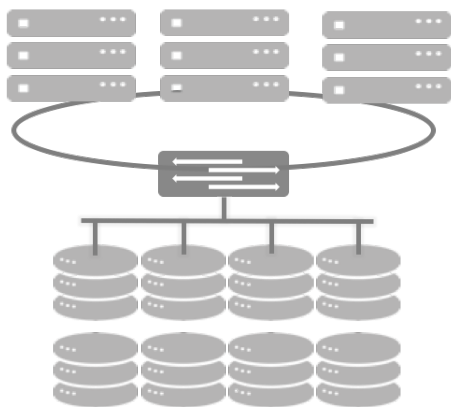
INTRODUCTION

Online reservation systems collect, move, store and share information from a wide number of databases across the globe. Delivering the right prices, for the right flight or hotel at the right time, in real-time requires a massive amount of parallel processing. Real-time analytics are critical, as is having enough capacity to store and compare against a large inventory of customer options.

CHALLENGE

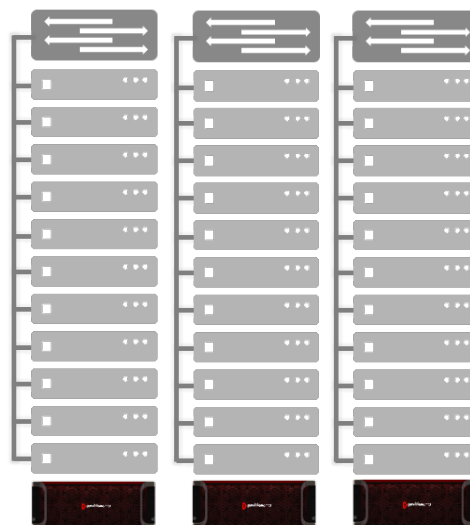
A leading provider of comparison shopping with numerous sub-brands reached a critical bottleneck with their existing SAN. To scale capacity with necessary performance a radical architecture change was required. Not only was real-time comparison of pricing required, but new business processes were imposed for detailed reporting on all transactions. As such, an entirely new approach is required that allows for scale of bandwidth, capacity and throughput in an elastic fashion.

AS BUILT (TYPICAL SAN)



- Proprietary Architecture
- Limited Bandwidth
- Clones & Copies Consume 2X Space

DISAGGREGATED STORAGE



- Standard's-based NVMe-Over-Fabrics
- 60GB/sec ingest and 120GB/sec export
- Zero-footprint snapshots



COMPOSED BY PAVILION

By migrating from a SAN with expensive storage used for data copies, the online reservation system was able to leverage Pavilion Data Systems snapshots to perform comparisons from data telemetry applications accessing other travel websites. This improved storage utilization and reduced costs. The ability to make clones directly from the snapshots provided consistent backups and eased reporting headaches. Moving to a modern NVMe-Over-Fabrics approach also gave the provider extraordinary bandwidth to process feeds from additional sources, further improving their analytics fidelity.

SUMMARY

With a standards-based approach to solving large scale operational problems, this online reservation system has increased accuracy of pricing, provided more reservation alternatives, faster and addressed a critical management reporting issue. Pavilion worked closely with the organization to assure a smooth transition from their legacy SAN and provides them with OPEN Choice options for redeploying existing NVMe SSDs or options to purchase new NVMe SSDs directly from the manufacturer as their expansion needs arise.