Container-Native storage made easy for any workload

Hyper-scalers leverage Excelero NVMe to increase application performance by 20% and lower cost by 5X

Kubernetes is great for managing containerized applications, handling scheduling complexity and providing a scalable and fault-tolerant environment. However, deploying storage that’s able to match Kubernetes’ advantages is critical and often complicated.

In cloud-native, highly scalable architectures, high utilization and cost efficiency are major requirements for maximizing cloud benefits and making the cloud economical. Storage plays a central role in this optimization. However, with container-native architectures, the choice of storage architecture can make or break the success of an entire Kubernetes deployment.

Major hyper-scalers have used NVMe with Kubernetes to move bare-metal loads to Kubernetes, increasing performance and turnaround times by 20%, while reaping a 5x cost saving!

Other companies are using NVMe in such environments for new workloads, such as Elasticsearch. NVMe is currently deployed in production Kubernetes clusters, spanning thousands of nodes.
Kubernetes architects at major enterprises are using NVMe to manage their production deployments of container storage, with the same ease and tools as Kubernetes applications.

NVMe provides high-speed, elastic storage to clusters, scaling linearly from a few pods, to entire data centers with heavy workloads. NVMe's multi-patented software provides a direct data path to the cluster nodes, bypassing CPU bottlenecks. By providing the throughput, low latency, and IOPS typical of a local NVMe device, storage performance concerns are removed, making container-native storage a reality without compromising on efficiency, cost or performance.

Since Excelero NVMe has Red Hat OpenShift Operator Certification, storage architects can integrate high-performance, low-latency NVMe storage into hybrid and multi-cloud Red Hat deployments for even the most demanding applications.

Excelero has also expanded its support for container orchestration platforms to Azure Kubernetes Service (AKS) and other platforms, to assure storage keeps pace with container adoption.

---

**Additional benefits**

### Availability

Disaggregated, shared storage infrastructure allows client workloads to be quickly moved between compute nodes in case of application server failure. Cell-based deployment support provides a cloud-like availability architecture to withstand failures.

### Data center class data protection

Unique distributed Erasure Coding provides a cost-efficient way to allocate high performance volumes to containers to meet peak demand.

### Maintainability

Retrieve updated versions of NVMe from standard container repositories for upgrades and security patches in heterogeneous Kubernetes clusters without downtime.

Excelero is your optimal partner for eliminating storage concerns.