

LightOS™ and Kubernetes

STORAGE FOR TODAY'S AND TOMORROW'S APPLICATIONS

As organizations modernize and move their applications to Kubernetes they realize that legacy block solutions don't meet the needs of dynamic container environments. Cloud native applications are architected for and expect high performance from their storage and recommend local flash devices. Cloud native applications such as MongoDB, Elastic, MySQL, Cassandra, the ELK stack and Apache Kafka all benefit from low latency, high performance block storage. In Kubernetes, these applications expect flexibility, scale and automation.

LIGHTOS EXCEEDS EXPECTATIONS IN KUBERNETES ENVIRONMENTS BY:

- Provisioning storage is as fast and dynamic as the containers it serves
- Enabling fast container migration between nodes
- Enabling large K8s container environments- 10k and more
- Enabling DevOps workflows with thin snapshots and clones at NVMe performance
- Providing Multi-tenancy for full separation
- Handling drive failures seamlessly with Elastic RAID
- Offering target resiliency and high availability; no application rebuild/synchronization
- Providing high IOPs, low latency performance equivalent to local flash
- Increasing efficiency, flash endurance and scaling storage independently from compute
- NOT requiring changes to your TCP/IP network; no proprietary drivers on Kubernetes servers
- Providing 50M IOPs, 200µs access time and 8PB usable¹ storage per LightOS cluster

