

Lightbits for eCommerce

Grow Your Online Business with the Most Cost-Efficient, Scalable, High-Performance Data Platform



PERFORMANCE AT SCALE

- Up to 75 million IOPS with sub millisecond tail latency
- Perfect for storage-intensive SQL and NoSQL databases and large-scale virtualization, and latency-sensitive workloads
- Built on the power and simplicity of NVMe/TCP



COST EFFICIENCY

- At least 50% lower TCO compared to public cloud, DAS, SAN, and HCI storage
- Scale processing power and capacity independently to maximize resource utilization
- Thin provisioning and compression to increase effective storage capacity



HIGH AVAILABILITY & RESILIENCY

- Clustered architecture provides high availability
- Synchronous replication within or across zones
- Built-in fast, efficient snapshots and database clones
- Multi-tenancy with Quality of Service assurances

With shoppers worldwide purchasing goods and services online at ever-increasing rates, the opportunities and challenges for merchants are rapidly evolving. To maximize sales in highly competitive markets, online vendors are demanding more from their eCommerce systems. They're challenged to quickly scale operations for unpredictable customer demand, for rapidly growing product catalogs, and for more complex supply chains. At the same time, they have the opportunity to extract more value from every transaction using AI and big data analysis to provide better customer experiences, to make smarter business decisions, and most importantly—to drive sales upward.

With scalable high performance, consistent low latency, and predictable low costs, Lightbits provides an ideal data platform for eCommerce that can be deployed in public, private, hybrid, or edge clouds. By disaggregating servers and storage, Lightbits ensures your business is prepared for peak sales times without over-provisioning—and overpaying—for resources. With Lightbits, you gain an efficient and agile storage platform that can scale as your business takes off while keeping costs from skyrocketing.

IDEAL FOR BOTH PUBLIC CLOUD AND ON-PREMISES DEPLOYMENTS

Whether your eCommerce platform is built with public cloud providers or you're building your infrastructure on-premises, Lightbits has a storage solution for you.

Reduce TCO of High-Performance Public Cloud Storage

Public cloud providers make it easy to not only build services, but to also scale them on-demand. The challenge is that you pay for that convenience as your service grows. Either the servers and storage scale together in lockstep, leading to over-provisioning. Or you pay for premium storage to get the high performance you need to handle demand surges that can happen more often than Black Friday or super sales events.

With Lightbits, you don't need to overpay for resources you're not using or remember to throttle up services for peak sales periods and then down again after. Lightbits is available on AWS and Azure with the ability to share software licenses across environments, including on-premises or hybrid clouds.

Upgrade to Agile and Scalable Software-Defined Storage

For businesses hosting their own eCommerce infrastructure, Lightbits enables you to build an economical, high-performance data platform that can scale easily to meet business growth and unpredictable user demand. Lightbits delivers software-defined, disaggregated storage clusters built on the power of NVMe® over TCP (NVMe/TCP).

As a software-defined solution, you gain the economics of using commodity servers and storage instead of legacy storage appliances. As a disaggregated replacement for direct attached storage (DAS), you gain higher availability and increase resource utilization. And because the Lightbits cluster uses NVMe/TCP you get maximum performance without any specialized networking.

With a private or hybrid cloud built with Lightbits, you can maintain control over your eCommerce platform without the complexity or expense of traditional storage architectures.

ENTERPRISE DATA SERVICES FOR YOUR ECOMMERCE CLOUD

Built on a disaggregated, clustered architecture, Lightbits unifies resources so you can efficiently provision and manage storage like a SAN, with key enterprise data services included.

High Availability: Clustered design eliminates service disruption on node or drive loss, while multi-zone synchronous replication provides business continuity.

Dynamic Scalability: You can dynamically scale-out or shrink your Lightbits cluster easily to meet increased performance or capacity requirements.

Snapshots and Clones: Lightbits provides built-in incremental snapshots, eliminating the need for third-party backup software, as well as efficient database clones for your DevOps teams.

Multi-Tenant: A single Lightbits cluster provides multi-tenancy for multiple heterogeneous environments. Lightbits Quality of Service (QoS) ensures your users won't notice any service impacts.

Flexible Licensing: Your Lightbits licenses are portable between AVS, Azure, and on-premises deployments and can be used for any implementation model: all cloud, hybrid- or multi-cloud.

Agile: Lift and shift workloads to any cloud and allocate storage on an as-needed basis.

OPTIMIZE THE PUBLIC CLOUD FOR ECOMMERCE

Scalable High Performance

- Fastest block storage on AWS and Azure to ensure fast response times during peak times
- Up to 1 Million IOPS per volume and consistent sub-millisecond latency under a heavy load
- Scale performance and capacity independently to optimize public cloud resources

Predictable Low Cost

- Pay as you grow on a consumption basis, not for provisioned IOPS or per volume
- Thin provisioning and compression extend storage capacity to reduce costs further
- Can reduce application licensing costs by reducing the number of VMs required

SAN In The Cloud

- Unified, streamlined provisioning and volume management
- 3-way multi-zone replication across failure domains for disaster recovery
- Includes snapshots for data protection, efficient clones for scale-out databases, and for DevOps

Fully Integrated

- Available on AWS and Azure marketplaces
- Certified for Azure VMware Solution (AVS)
- Supports SQL and NoSQL databases: Oracle, MySQL, PostgreSQL, MongoDB, and more
- API-driven to integrate with automation tools

BUILD AN AGILE, EFFICIENT ECOMMERCE CLOUD

High-Performance Clustering

- Software-defined disaggregated architecture
- NVMe/TCP architecture yields higher performance and consistent low latency
- Scales compute and storage independently from 3 to 16 nodes to improve performance and utilization

Intelligent Flash Management

- Enhances endurance and performance of low-cost SSD storage
- Optimizes SSDs with data placement, thin provisioning, and compression for ultimate price/performance
- Extends flash endurance by 20x

Enterprise High Availability & Resiliency

- No service disruption on node or drive loss
- Non-disruptive rolling software upgrades
- Synchronous cross-zone replication for DR
- Built-in snapshots and thin clones for data protection, and DevOps
- Persistent storage for Kubernetes, compatible with VMware and OpenStack environments

Network And Clients Unchanged

- Uses standard TCP/IP networks and Ethernet NICs without changes
- No proprietary software installed on client
- Multi-tenant architecture with Quality of Service to prevent resource hogging
- API-driven to integrate with your tools