

Cloudian optimizes its object storage applications with a tailored load balancing solution from Loadbalancer.org

Cloudian announced its HyperBalance product, an enterprise load balancer that intelligently manages application traffic across storage nodes to provide optimal, consistent performance. Based on proven technology from

Loadbalancer.org, HyperBalance is tightly integrated with Cloudian's HyperStore object storage and Cloudian's HyperIQ observability platform to address key challenges of managing large data volumes at scale.



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Neil Stobart,
VP, Global System Engineering,
Cloudian

Challenge

- Need for intelligent management of application traffic across storage nodes
- Need for seamless availability of object storage applications

Solution

- Tailored load balancer built for Cloudian's specific needs

Benefits

- GSLB functionality which provides high availability across multiple sites
- A user interface tailored to the needs of Cloudian HyperStore
- Custom branding
- Automated implementation with integrated monitoring and alerting
- Improved security
- Aligned development roadmaps
- Bespoke load balancing features
- Flexible licensing and SLAs
- Bespoke training and certification
- Custom support and service channels

Challenge

Cloudian provides exabyte-scale storage for on-prem, hybrid cloud, and multi-cloud capacity-intensive workloads. Their S3-compatible object storage solutions address key user concerns such as data security and provide limitless scalability. Object storage platforms scale out exponentially when demand grows. However, without load balancers, they can only perform as well as the network connectivity and underlying infrastructure provided to them allows.

Cloudian realized that in certain situations their customers were experiencing reduced bandwidth and processing contention, leading to issues accessing their Cloudian HyperStore platform. Customers not taking a per app approach and electing to load balance their product in conjunction with other applications were inadvertently creating a 'noisy neighbor' situation where Cloudian HyperStore was therefore having to share traffic with other applications.



In order for them to be able to offer their customers the high availability and accessibility Cloudian wanted, they needed to be able to provide a seamless end user experience, guaranteed uptime, and consistent data access. It was therefore determined that a dedicated load balancing solution was needed to provide intelligent routing and rerouting across Cloudian's available storage nodes, utilizing health checking server status and determining directionality to ensure that all requests are dealt with successfully. But which load balancing vendor should they use?

The solution itself needed to be tailored, in order to meet their specific needs and optimize their object storage solution. But a standard load balancer wouldn't work for Cloudian, because it would have introduced more product complexity for the user. Cloudian needed to find a load balancing vendor that could provide the functionality they needed, but in a way that worked for their customers, while at the same time satisfying the commercial flexibility Cloudian needed.

Solution

With a tailored load balancer from Loadbalancer.org, Cloudian was able to tick all of these boxes. Initial design, consultation and proof of concept helped define Cloudian's specific requirements for a tailored load balancer that would fit with their customers' environments and Cloudian's business model. And so the HyperBalance load balancer was born. HyperBalance is based on Loadbalancer.org technology that tightly integrates with Cloudian HyperStore and serves as a dedicated load balancer, bringing optimal performance, high availability and a seamless user experience.



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As Neil Stobart, VP Global System Engineering at Cloudian, explained: “Loadbalancer.org technology has allowed us to develop and integrate our own, bespoke load balancing solution, HyperBalance, which has freed us up to focus on our core product offering, without having to worry about server resources being pulled away from our solution by other applications.”

Benefits

The tailored HyperBalance load balancer adds value to Cloudian's product offering and optimizes their object storage solution - without the hefty price tag of other load balancing vendors. This has resulted in the following benefits for Cloudian:

- Super intuitive WebUI with feature customization specifically developed to simplify management of application traffic across geo-dispersed clusters.
- Full rebrand to Cloudian's guidelines to help them present a single out of the box HyperBalance solution to the end-user.
- Bespoke release schedule aligned with Cloudian HyperStore's development plan, minimizing maintenance schedules for end-users.
- Flexible licensing and SLAs supporting Cloudian's go-to-market and price point strategy, to appeal to their customers.
- Bespoke training for sales, engineers, and architects on the underlying Loadbalancer.org technology
- Tailored support plan integrated with Cloudian's own support team to ensure escalation points are dealt with efficiently by expert engineers 24/7.

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