

Enterprise Load Balancer for Cloudian HyperStore

Cloudian and Loadbalancer.org enable organizations to provide highly-available, exabyte-scale storage for capacity-intensive workloads.

How It Works

The HyperBalance load balancer sits in front of multiple Cloudian HyperStore nodes. Four virtual services are used to load balance the different aspects of HyperStore:

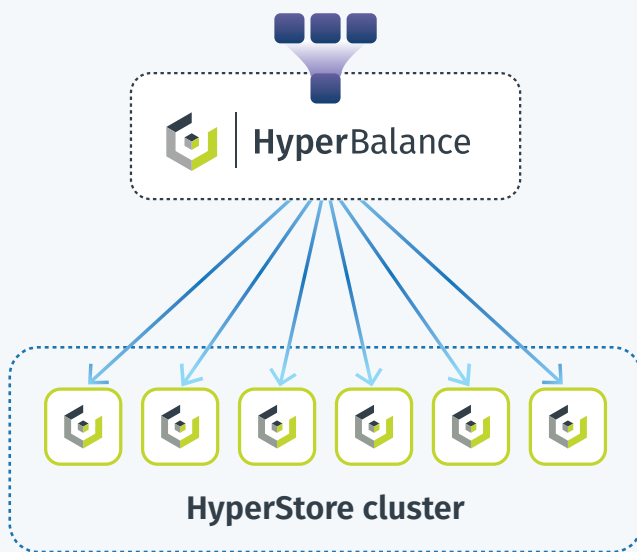
- CMC - for Cloudian Management Console requests.
- S3-HTTP - handles requests from S3 client applications via HTTP.
- S3-HTTPS - handles requests from S3 client applications via HTTPS.
- API - handles API requests via HTTPS.

Single Site Scenario

In a single site scenario, multiple Hyperstore Nodes and two load balancers configured as an HA pair are deployed to ensure availability.

Clients access the HyperStore Nodes via the Virtual IP address (VIP).

Customer defined global S3 endpoint:
"S3.customerdomain.com"



Load balancing technology powered by



Key Benefits

Performance at scale

- Add HyperStore nodes to a cluster as data demands increase.

High availability

- Monitor node health and distribute the workload.

Flexible deployment options

- Single-site, multi-site and hybrid cloud.

High-speed networking

- 10GbE to 100GbE connectivity.

Seamless maintenance

- Bring nodes offline in one click.



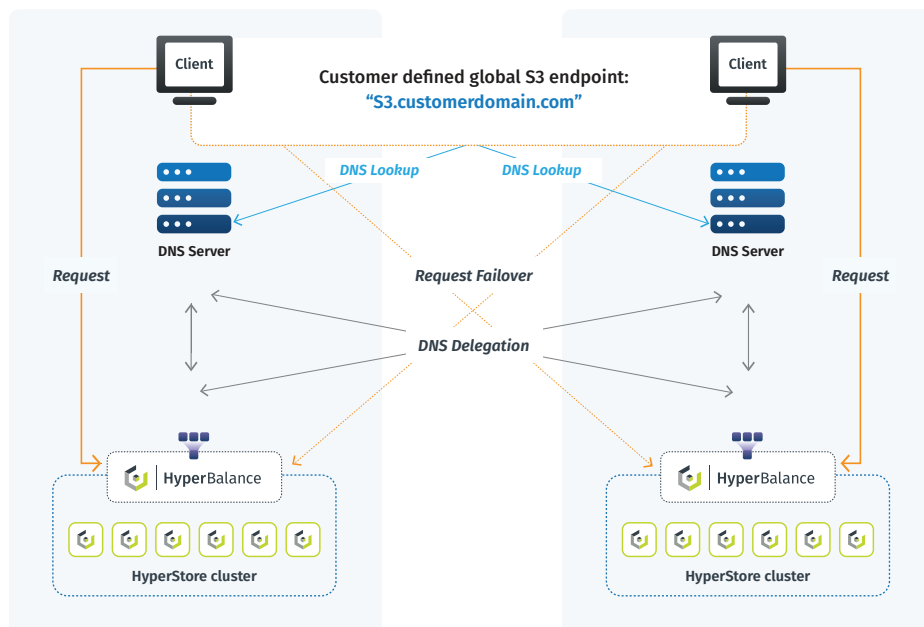
Award-Winning

Proven at over 700 enterprise customers worldwide with nearly two exabytes of capacity under management, Cloudian Scored Highest for All Use Cases in the Gartner 2020 Critical Capabilities for Object Storage Report and was named a Gartner Peer Insights Customers' Choice in 2020, 2021, and 2022.

Multi Site Scenario

Under normal conditions, each site works as described in the single site scenario. Should all Hyperstore nodes in one site become inaccessible, local client traffic is routed to the virtual IP address presented in the other site.

External clients can either be bound to a particular site, or the load balancer's built-in global server load balancer (GSLB) can be leveraged to protect against site failure by providing intelligent DNS name resolution & site connectivity.



Why Cloudian HyperStore and Cloudian HyperBalance (powered by Loadbalancer.org)

Cloudian and Loadbalancer.org both specialize in reducing infrastructure complexity through intelligently designed and infinitely scalable network architecture.

Users across many industries - including medical and media - are facing rapid increases in data, with storage demands intensifying as technologies progress.

The Cloudian and Loadbalancer.org partnership offers an answer to this challenge. Customers can enjoy the benefits of object storage in their own data centers, thanks to indestructible, enterprise, scale-out solutions.

About Cloudian

Cloudian® is the leader in data management software for the hybrid cloud. With military-grade security, limitless scalability, and seamless cloud integration, Cloudian's HyperStore S3-compatible object storage lets users optimize data access, meet data sovereignty requirements, and cut costs by consolidating information to a single, cloud-like platform. Cloudian's geo-distributed architecture manages and protects object and file data at the edge, core, and in the cloud—for both conventional and modern applications.

Cloudian HyperBalance load balancers are fine-tuned to work flawlessly with Cloudian HyperStore and are powered by the technology and services of Loadbalancer.org.

More at Cloudian.com/HyperBalance.

About Loadbalancer.org

Loadbalancer.org is a renowned international provider of reliable, versatile and cost-effective application delivery products and services. The load balancer experts provide an unbreakable solution to issues of availability and scalability, ensuring zero downtime for critical IT applications.

Loadbalancer.org's specialist engineers help design and simplify architecture, taking a consultancy-led approach which guarantees painless deployments every single time.

