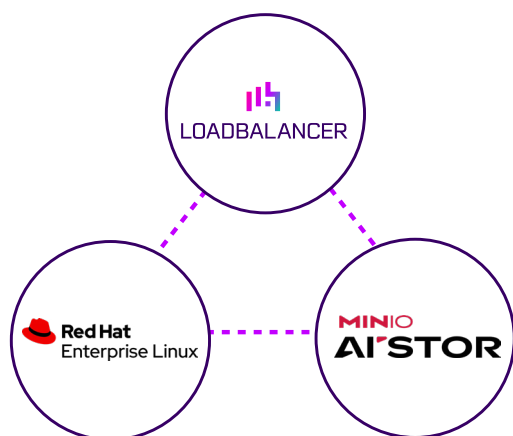


# Integrating Loadbalancer with Red Hat OpenShift and MinIO AIStor for scalable AI data ingestion

*Keeping data consistent, up to date, and secure in distributed environments becomes exponentially more challenging when faced with surging workloads in the exabyte range—far exceeding the capacity of manual processes to keep pace.*



## Tackling the challenge of large-scale AI data ingestion

Ingesting vast AI training data into S3-compatible storage presents capacity, speed, and security challenges. Traditional systems bottleneck under exabyte-scale influx, risking data loss and delaying AI development.

Migrating data on-premise adds additional complexity, demanding comparable cloud scalability and security, requiring significant investment. While hybrid cloud environments can often only further complicate the project, juggling data governance laws and reliability.

The end result is the need for a deliberate, strategic approach to the management of these AI workloads.

## KEY BENEFITS



### High performance AI workloads

For enterprise AI model training, Loadbalancer with MinIO delivers high-performance load balancing and extreme throughput (hundreds of Gbps) for uninterrupted, data-intensive tasks.



### Open source credentials

This solution leverages open source technologies from MinIO, Red Hat and Loadbalancer, providing inherent flexibility and adaptability to evolving needs.



### Scalable and unified AI storage

The integration of MinIO AIStor with Red Hat OpenShift creates a flexible, S3-compatible storage pipeline that dynamically adapts to changing workloads, preventing bottlenecks.



### Seamless integration

Red Hat OpenShift and MinIO AIStor work together smoothly to provide scalable, high-performance storage specifically designed for AI and machine learning processes.



### Cost efficiencies

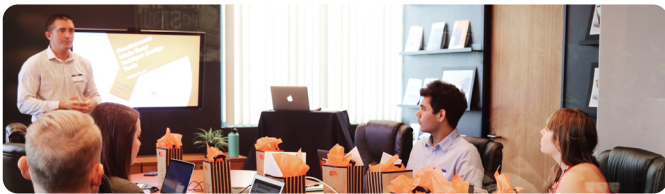
The solution facilitates efficient data movement and replication, allowing for cost optimization as workload demands stabilize by returning data from elastic cloud environments to potentially more cost-effective original locations.



## Use Loadbalancer, Red Hat, and MinIO to create scalable, secure AI pipelines

Loadbalancer's Enterprise ADC hardware, forms a crucial component in the infrastructure stack for streamlined AI data ingestion by efficiently managing heavy traffic across mission critical storage environments.

By combining MinIO AIStor's S3-compatible object storage with Red Hat OpenShift, organizations gain a high-performance, scalable infrastructure that simplifies resource management, accelerates data workflows, and removes bottlenecks in AI development.



This integrated solution tackles the performance, scalability, and security hurdles of large AI data ingestion. Its unified design ensures data protection, supports diverse deployments, and reduces manual workflow complexity, enabling faster, more reliable AI development.

## Accelerate AI innovation with integrated, high-performance architecture

Leveraging Loadbalancer alongside MinIO AIStor and Red Hat OpenShift guarantees optimal performance and availability of services. This combined solution enables intelligent traffic distribution and balances data requests and responses, preventing system bottlenecks & ensures consistent data access for AI applications.

Loadbalancer's simple WebUI allows service providers to adjust to large scale expansions over time, adding nodes linearly for increased performance and high availability across complete infrastructure. This makes overall data handling more agile and predictable, delivering seamless scalability for sizable AI datasets and workload demands, as well as robust security, speed, and traffic management functionality.

These capabilities accelerate iteration and development by removing infrastructure limitations. Continuous, secure access to massive data volumes enables efficient insights, ultimately powering next-gen AI applications while managing operational complexity.

## Next steps

Loadbalancer is the engineers' choice for smarter load balancing. Our intuitive ADC is designed to save time and money with a clever, not complex, WebUI, reducing complexity for a difference you can see in just minutes.

Find out how our products can help you to scale your AI workloads, with powerful, user-friendly application delivery solutions from the load balancing experts.

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