

Cirata Data Migrator

Automated data transfer at any scale with zero business disruption, minimized risk, and best time-to-value

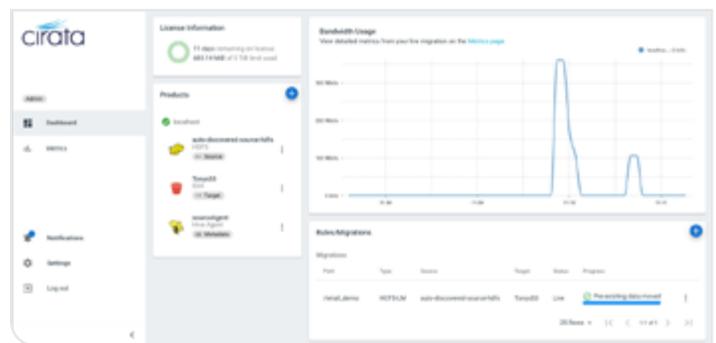
The modern business landscape is ruled by data. Analytics and AI are now essential for driving key business transformation. In order to make effective use of their valuable data assets companies are modernizing their data architecture, which means bringing their business-critical data to work in the AWS cloud. While customers have benefited from the performance, flexibility, and cost savings offered by AWS, many enterprises have struggled with their digital transformation. Cloud data transfer is fraught with business risks including disruption of critical business operations, risk of data loss, and overall project complexities that often result in cost overruns or failed initiatives.

Organizations need a data transfer approach that reduces and eliminates these business risks. They need a solution that lets them maintain business operations, that can be performed easily, and that ensures a complete and continuous migration with zero data loss. Cirata Data Migrator is that solution.

Product overview

Data Migrator is an automated, scalable, and high-performance data integration solution that simplifies making your data available in and immediately usable across on-premises environments and the AWS cloud.

Data Migrator is non-intrusive and requires no custom code development or changes to existing applications, cluster, node configuration or operation. Data transfer of any scale can begin immediately and be performed while the source data is under active change without requiring any production system downtime or business disruption, and with zero risk of data loss.



Key benefits

Automated data transfer at any scale with zero business disruption, minimized risk, and best time-to-value.

Business continuity

- Automated data transfer of changing data
- No downtime or business disruption
- Immediate data availability

Scalability

- Supports data transfer at any scale
- Horizontal scaling with multiple transfer agents
- Maximizes use of available network bandwidth

Cost and risk avoidance

- Fully automated data transfer
- No custom coding nor application changes
- Minimizes need for IT resource involvement

Data Migrator key capabilities

- **Quick deployment and operation:** Data Migrator is installed on your chosen source host(s). Deployment can be performed in minutes without impacting current operations, so users can begin moving data immediately.
- **Complete and continuous data transfer:** Existing datasets can be moved with a single pass through the source storage, eliminating the overhead associated with multiple scans, while also supporting continuous replication of any ongoing changes from source to target with zero disruption to current production systems.
- **Support for data and metadata transfer:** Data Migrator supports the transfer of unstructured datasets as well as metadata stored in structured Hive tables. Data Migrator transforms metadata from the source metastore format to various supported metadata targets including AWS Glue, Databricks, and Snowflake.
- **Data transfers at any scale:** Data Migrator supports the transfer of datasets at any scale, from terabytes to multi-petabytes, without impacting current production environments. Horizontal scaling capabilities allow users to scale their data transfer capacity by configuring multiple transfer agents to maximize the use of available network bandwidth.
- **Configurability and control:** Users can configure data transfer jobs to meet their organizations specific needs. This includes standard configuration options such as defining sources, targets, and data to be migrated, as well as advanced capabilities such as migration prioritization, path mapping, and network bandwidth management controls.
- **Browser-based user interface:** Users can leverage the Cirata user interface (UI), a browser-based UI that allows them to manage the complete data transfer process from the single management console.
- **Programmatic interface:** Data transfers can also be managed through a comprehensive and intuitive command-line interface or using the self-documenting REST API to integrate the solution with other programs as needed.
- **Data transfer verification:** Data transfer verification scans both source and target environments to ensure data fidelity and validate the success of all data transfers. Notifications can be used to specify the status of transfer verifications and receive the results by email.
- **Metrics and monitoring:** Information to keep you updated on the data transfer jobs, from health and status metrics providing estimates for data transfer completion to email notifications and real-time insights regarding usage and promoting hands-off operations.

Use cases

Data modernization

Shift away from legacy data platforms and siloed or underutilized datasets to modern data technologies in the AWS cloud that enable advanced analytics, AI, faster decision making, and more flexible and elastic storage and compute to unlock the full value from the data.

Disaster recovery

Maintain a current replica of actively used data in another location (either cloud or on-premises) for failover purposes in case the primary production environment becomes unavailable. Providing the ability to replicate the data in near-real-time is critical to meet any near-zero RTO (recovery time objective) and RPO (recovery point objective) requirements.

Hybrid and multi-region

Implement flexible architectures that maintain data in hybrid environments, which can include on-premises, cloud, and multi-region deployments. As a result, organizations can leverage best in-class capabilities, improve availability and increase regional coverage.