

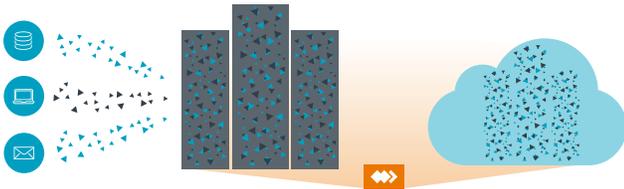
WANdisco LiveMigrator

Migrate from on-premises HDFS to the cloud with ZERO downtime, ZERO data Loss and verified consistency

If you have business-critical systems running on your big data environments, moving them away from cumbersome and costly fixed infrastructure can be challenging. You want to take advantage of the cloud, where access to modern data and processing capabilities is more flexible, but getting there may mean stopping your systems while you migrate. You need a solution that can let you maintain business operations while you migrate massive volumes of data efficiently.

AUTOMATED CLOUD MIGRATION

LiveMigrator eliminates risks for big data migration to cloud by continuously replicating your data to the cloud.



WANdisco LiveMigrator Automates Cloud Migration

- WANdisco LiveMigrator automates your Hadoop to cloud migration at scale with no application downtime and no risk of data loss, even when your data sets are under active change.
- As changes occur anywhere in the donor system, LiveMigrator creates and ensures beneficiary data consistency.
- Additionally, LiveMigrator minimizes IT resources with One Click replication across all major commercial Hadoop distributions and storage and analytic services, while requiring just One Pass of the source storage.
- LiveMigrator enables you to transition to a LiveData environment which makes your data globally accessible and consistent where it is needed, avoiding the pattern of data silos that emerge when data cannot be kept consistent. With LiveData, every user and application has read and write access to the data they need, regardless of geographic location, underlying storage platform or cloud storage provider.

MANUAL CLOUD MIGRATION

This common approach is based on custom programming to copy data to the cloud.

Manual cloud migration includes incomplete strategies such as *change data capture*, which has no visibility of existing data, only of changes, tools to *copy static data* such as DistCp, which do not account for changes being made to the data under migration, or *dual-ingest architectures* which require that your applications are modified significantly.



- Large data sets will take time to migrate to the cloud. This time lag makes it challenging to accurately bring continuously changing large scale data sets to the cloud.
- Manual migrations disrupt the operation of on-premises applications, deliver inconsistent data, risk data loss, and lack accuracy validation.
- In addition, they cause costly overhead with time overruns, manual checking, repeated scans, and significant resources for custom code maintenance and management.

LIVEMIGRATOR BUSINESS BENEFITS

Business Continuity

- 100% Data Availability during migration, lowest RPO/RTO, improves Data SLA's
- High Scalability and better performance with Big Data Sizes (100's TB - Multi PB)
- Immediate availability of migrated data
- Unaffected by outages

Ensures Data Consistency

As changes occur anywhere in the donor system, LiveMigrator creates and ensures beneficiary data consistency

Cost Avoidance/IT efficiency

- No code maintenance
- One Click automated replication across all major commercial Hadoop distributions, storage, and analytic services
- One Pass of the source storage lowers project cost, faster project completion, faster adoption of ML and AI
- Multi-Cloud (Bi-Directional) Data Replication compatible with All Cloud Vendors.
- No "Big Bang" cutover for applications

LIVEMIGRATOR — WHY IT'S DIFFERENT?

- **Hadoop & Object Storage:** Works across a variety of big data source and target environments, including all major Hadoop and object storage technologies
- **Petabyte Scale:** Migrates big data sets at any scale to cloud storage without needing to halt changes made to the data sets during migration
- **Selective Migration:** Allows selection of which data sets should be migrated. Administrators define replication policies that control what data is replicated between clusters and selectively exclude data from migration to specific clusters in the new environment, or move it off to be archived
- **One Pass:** Migrates existing data sets with a single pass through the source storage system, eliminating the overhead of repeated scans
- **Consensus-Based Consistency:** Incorporates changes made to the data sets under migration with a strongly consistent distributed consensus engine, so that applications can continue to modify the donor system's data without causing divergence between donor and beneficiary
- **Bandwidth Management:** Optimizes bandwidth use by eliminating the need for repeated transfer of data, and enforces limits on bandwidth use
- **Automatic Outage Recovery:** The consensus engine used by LiveMigrator eliminates the need for manual response to system failures, including network outages and other disruptions.
- **Rapid Availability:** Minimizes the time required to bring workloads to the cloud by making each data location available for use as soon as bandwidth allows
- **Guaranteed Consistency:** As changes occur anywhere in the donor system, LiveMigrator creates and ensures beneficiary data consistency.

LiveMigrator Use Cases

Adopt scalable cloud storage

Free your systems from the capital constraints of acquiring storage hardware by leveraging cloud storage systems, including Amazon S3, Azure Data Lake Storage, Google Cloud Storage and Alibaba Object Storage Service.

Cloud migration without downtime

No-disruption data migration allows your users and systems to continue operating while migration is underway—even if the migration takes weeks or months.

Cloud analytics tools

Bring your on-premises workloads to the analytic tooling available in the cloud. Follow defined processes for using systems like Databricks, Snowflake and Hadoop in the cloud without affecting your on-premises activities.

Data lake consolidation

Unify your data silos in a modern architecture by bringing datasets to the cloud, and maximize your data investments by keeping information available to all users.

Hybrid cloud enablement

Transition to a hybrid architecture where you keep on-premises and cloud environments continuously in sync.

Multicloud enablement

Set the foundation needed for a future multicloud strategy where your data remain accessible and active across multiple cloud environments

About WANdisco

With zero downtime and zero data loss, WANdisco LiveMigrator solves the problem of moving petabyte scale data to the cloud and LiveAnalytics Solution provides immediate analytic data access through continuous automated replication from on-premises Hadoop analytics to Spark based cloud analytics. WANdisco Fusion keeps geographically dispersed data at any scale consistent between on-premises and cloud environments allowing businesses to operate seamlessly in a hybrid or multi-cloud environment.

WANdisco has over a hundred customers and significant go-to-market partnerships with Microsoft Azure, Amazon Web Services, Google Cloud, Oracle, and others as well as OEM relationships with IBM and Alibaba.



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