



# miria

ATEMPO

## For Migration

ATEMPO  
preserving data ecosystems

### MIGRATION MADE SIMPLE FOR VERY LARGE VOLUMES OF FILES

Rapidly move your unstructured data between heterogeneous storages (Cloud, NAS, distributed or parallel file systems)

Migrating unstructured file data between storages is complex. Solutions such as rsync or robocopy are not scalable, require many time-consuming checks and can lead to data loss. The impact on production storage is often not under full control



Avoid the traps of a Do-It-Yourself approach:

- Tests / time-consuming errors
- Missing files and folders or inaccessible migrated objects
- Storage production stoppage
- Rapidly saturated networks and I/Os
- Incompatibility issues

### 4 KEY QUESTIONS FOR TEAMS MANAGING VERY HIGH CAPACITY STORAGE:

- How long would it take to migrate the content from my existing storage to a newer, more powerful NAS?
- Can I migrate a massive number of files without stopping storage access for my users?
- How do I migrate user shares from one NAS to another and keep access rights fully intact after the migration?
- Can we migrate millions of files, folders and links between two storage platforms of different vendors or different technologies? From Lustre to GPFS or vice versa? Between Cloud storages? From Cloud to a local storage?



Migrating files incrementally and automatically between heterogeneous storages



Zero production downtime: storage remains 100% operational



Automatic object integrity and migrated file access checks



Adjust performances by simply adding or removing a Data Mover



Complete Software + Professional Services with initial audit, constant monitoring and final checks



The migration process can be transformed into data protection for the new storage using the same solution



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ATEMPO

- for Backup
- for Migration
- for Data Moving
- for Archiving



Solution Architect  
in the US Defense  
Sector

*“We tested several paying and free migration software products and we chose Miria because we were able to perform the final switch in under 4 hours. Talk about making life easier!”*

## TYPICAL MIRIA FOR MIGRATION USAGES:

- **Local to Cloud:** Migrate data from local storage to cloud,
- **Cloud to Cloud:** Migrate data from cloud provider A to provider B, to change to a new cloud provider or to move data from public to private cloud,
- **Cloud to Local or back to on-prem:** Migrate data from cloud storage to local storage, a "reverse cloud" migration,
- **Local to Local:** Migration between different storage technologies or different vendors, for instance from Lustre to GPFS or from GPFS to Lustre, from NAS to GPFS, etc.



## WHY MIRIA FOR MIGRATION?

Powerful and reliable migration tool to let you keep your old storage going until the new one is ready

During the migration of a production file system from one storage to another, Miria detects any modified or deleted object and manages the incremental forever synchronization. Storage migration has suddenly gotten a lot easier.

### Highly parallelized processes for optimal performance

Miria technology separates the detection of objects from the actual data movement. Unlike many other solutions, Miria **starts moving data very early** on and uses a powerful

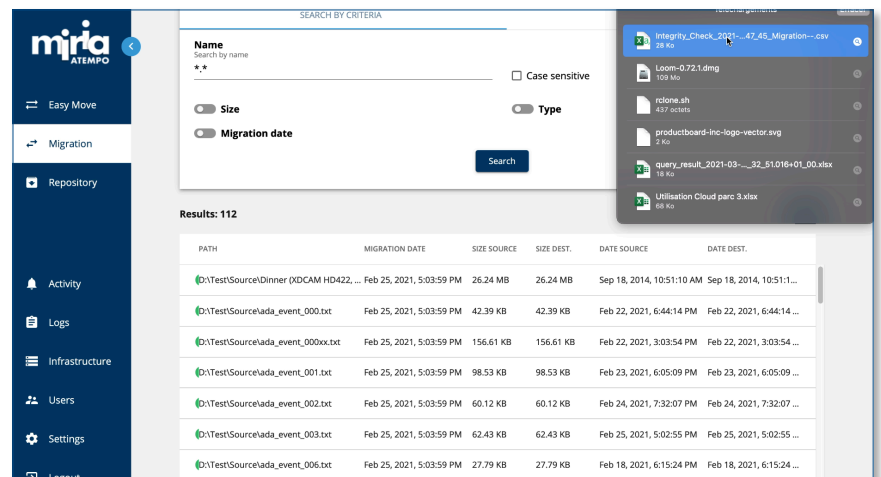
parallel processing and powerful multi-task environment adapted to all file sizes.

### Vendor-agnostic solution enables migration between different types of storages

Miria for Migration collects files with their access rights and ensures full compatibility with target storage and protocol.

### Complete migration and software services

Atempo teams work with you from the initial audit to the final sign off for all files and folders on your new storage, with full supervision of the successive migration phases.



## TECHNICAL CHARACTERISTICS

### COMPATIBLE STORAGE & FILE SERVERS (SOURCE AND TARGET FOR MIGRATION)

- Cloud & Object Storages: AWS, Azure Blob Storage, Google Cloud Storage and any S3 or Swift compatible objet storages/cloud providers
- NAS and Scale-out NAS: NetApp, Dell/EMC Isilon, Qumulo, Huawei and other NAS with CIFS/SMB or NFS shares
- Shared or parallel storage and file systems: Lustre/EXAScaler, DDN, IBM Spectrum Scale (GPFS), Panasas, StorNext, and others
- Industry-standard Windows, macOS, Linux file servers

### MONITORING

- Detailed reports at each step of the process enable the calculation of the migration convergence point indicating how much data remains to migrate, and any issues to watch. File integrity mechanism and reporting to provide end of migration proof.
- Centralized configuration and management

### BANDWIDTH AND NETWORK THROUGHPUT

- Capacity to move data with very high transfer speeds (saturation of a 10 GB network for example) and limit network flow based on constraints
- Possibility to set migration windows to minimize the impact on the storage and the network

### ADVANCED STORAGE INTEGRATIONS

- Adapted to very high data volumes with many small or very large files FastScan option can be activated for the migration on certain storages (Lustre / EXAScaler, Qumulo, Isilon, GPFS, Nutanix, NetApp,...). FastScan enables detection of created, modified or deleted files since the last migration cycle

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