





miria backup

High-performance backup and disaster recovery for petascale and exascale file storage.

When the daily rate of file changes no longer fits your backup windows, and cutting downtime or I/O impact only drives protection costs up, traditional backup stops scaling. **Miria Backup** runs regular, efficient incremental backups across billions of files, restores with full confidence from a handful of files to exascale data sets, and keeps critical data accessible during a storage incident through an open, multi-storage solution spanning cloud, disk, object and tape.

 <p>Minimal backup windows</p> <p>Successive increments instead of never-ending full scans.</p>	 <p>Incremental forever</p> <p>One full, then increments. Miria reconstructs on demand.</p>	 <p>Restore anywhere</p> <p>Recover to a different storage type, protocol or platform.</p>	 <p>Open & multi-storage</p> <p>One backup solution across cloud, disk, object and tape, with no vendor lock-in.</p>
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● ● ● Key benefits

01 · DETECT

FastScan rapid change detection

FastScan¹ lists added, modified and deleted files without lengthy storage crawling, so backups start very early and run in parallel across every file size.

04 · RECOVER

Disaster recovery & continuity

Recover selected files, priority folders or whole volumes, and keep critical data accessible while you wait for maintenance or replacement storage.

02 · PROTECT

Incremental forever to cloud & object

When the target is object or cloud storage, the initial backup is a single full, followed only by increments. Miria reconstructs the full to restore on demand.

05 · CONNECT

Open, multi-storage targets

One backup solution across cloud, disk, object and tape. No lock-in to a single vendor's snapshots or replication.

03 · INTEROPERATE

Agnostic restore to any platform

Files are collected with their ACLs in a neutral, open format. On restore, data and ACLs are reformatted for the target protocol and storage.

06 · RESTORE

Restore with full confidence

From a few files to petascale and exascale data sets, including to another storage platform, with ACLs intact throughout.

● MIRIA · WHY MIRIA BACKUP · 02 / 02

Built for the volumes legacy backup can't reach.

The questions every backup manager of high-capacity storage faces, and the limits of traditional SAN/NAS and NDMP approaches Miria is designed to leave behind.

Key questions from backup managers

- How do I run full backups when **incrementals already exceed** my backup window?
- Is it powerful and reliable enough for **hundreds of TB** and billions of files under legal retention?
- How do I back up data held in the **cloud or on object storage**?
- How do I **restore very large volumes rapidly**, and from one storage type to another?
- How do I guarantee **continuity of access** to critical data during a storage incident?

Traditional SAN/NAS & NDMP limits

- ✗ Slow file-by-file scans delay the actual backup well after job launch
- ✗ Very slow massive recovery from the absence of parallelization
- ✗ NDMP protocol designed for tape, not modern storage
- ✗ Locked solutions that only restore to identical platforms
- ✗ Full-plus-incremental models that don't scale beyond 100 TB

<p>reduces</p> <p>Backup windows</p> <p>Daily change rates that no longer fit operational backup windows.</p>	<p>reduces</p> <p>Vendor lock-in</p> <p>Dependence on single-vendor snapshots and replication, and their cost.</p>	<p>reduces</p> <p>DR complexity</p> <p>Costly, complex disaster-recovery replication and synchronization.</p>	<p>reduces</p> <p>Restore time</p> <p>The time and risk of securely restoring full backups, on-prem or cloud.</p>
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"We back up our unstructured NAS data sets from multi-OS sources while respecting ACLs. Thanks to Atempo, our NFS and CIFS file systems work in perfect harmony with S3-type storage."

MICHEL RUFFIEUX · STORAGE & BACKUP MANAGER · UNIVERSITÉ DE LAUSANNE (UNIL)

● ● ● **4 data services, 1 platform** ANY WORKFLOW · ANY FILE STORAGE

<p>● Backup</p> <p>Protect file storages from damage and loss; guarantee fast production recovery.</p>	<p>● Migration</p> <p>Efficiently migrate data volumes and billions of files between dissimilar storages.</p>	<p>● Archiving</p> <p>Free up expensive primary storage and ensure data-preservation compliance.</p>	<p>● Mobility</p> <p>Move files wherever needed and synchronize datasets across heterogeneous storages.</p>
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