

Miria provides petabyte-scale life insurance for the University of Lausanne

CLIENT: UNIVERSITY OF LAUSANNE SECTOR: UNIVERSITY AND RESEARCH

UNIL | Université de Lausanne

"UNIL wanted a protection for its unstructured data stored on two replicated Isilon NAS. Life insurance for our data."

Pascal Jacot-Guillarmod, Project Director on UNIL's steering committee



The university

The University of Lausanne (UNIL) comprises 7 faculties on a single campus on the shore of Lake Geneva. Much of the University's data storage requirements are generated by the medicine and biology faculties – for example DNA sequencing tests or the results of microscope samples which generate tens of millions of relatively small files.

- Country: Switzerland
- Specialities: Medicine-biology / social sciences / arts / theology / geosciences / law / business (HEC)
- Key figures: 15,000 students, 5,000 employees

The technical background

- Replicated Isilon NAS
- · 300 million unstructured files
- 5% daily changes
- Workstations and endpoints multi-OS, CIFS & NFS
- Backup to ECS Elastic Cloud Storage (EMC)

The challenges

- · Perform a full monthly backup (legal obligation)
- Perform a daily incremental backup within the designated backup window
- Guarantee data preservation even if a cryptovirus hits
- Be able to restore to a different storage platform

The solution

- Atempo Miria for Backup
- Features: FastScan, Incremental Forever backup to S3-type storage

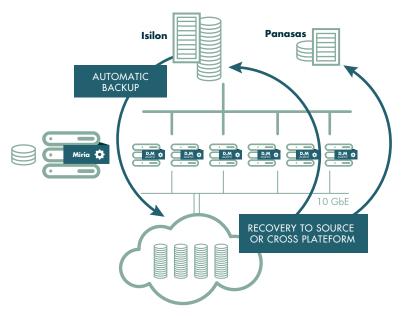
IN ECONOMICS AS IN ECOLOGY, WE NEED TO LEARN HOW TO MAKE THE BEST USE OF AVAILABLE RESOURCES AND ENSURE THEIR FUTURE PRESERVATION.



The benefits

- The backup rapidly detects files that are created, deleted and modified on the storage,
- No full backup is required the incremental forever limits the number of instances kept for each file
- · Recovery at file or batch level,
- Total recovery possible in the event of a serious incident
- Restorations possible from multiple-storages

Architecture



"We have backed up our unstructured NAS data sets based on multi-OS sources while respecting ACLs. Thanks to Atempo, our NFS and CIFS file systems are working in perfect harmony with S3-type storage."

Michel Ruffieux, Storage and Backup Manager, UNIL



Beyond traditional NDMP backups

- Even if the time between NDMP backups can provide a solution in the event of an infection or an attack on the primary or secondary storage -or both- there are nevertheless serious security limitations with this approach.
- An alternative and more flexible solution had become necessary; one which verified the integrity of the stored volumes. In this context, Atempo's solution was implemented for Isilon NAS backups without using the NDMP protocol.
- With Atempo's solution, UNIL can today rely on rapid, reliable and efficient backup of their very large data sets. They also have a genuine option to extend this technology to cover future archiving requirements..