

University of Lausanne Secures Hyperconverged Infrastructure with Cohesity



UNIL | Université de Lausanne

INDUSTRY

Higher Education

USE CASE

Backup and Recovery

SOLUTION PARTNERS

VMware

SOLUTION PARTNERS

Infonika SQL AG

INTRODUCTION

Founded in 1537, the University of Lausanne has seven faculties, more than 15,000 students, 5,000 employees, and 2,700 researchers. With approximately two million documents, it currently manages more than 22PB of logical data. A backup solution by another vendor was set up for backup and recovery at the Neuchâtel site. Storage Backup Manager Michel Ruffieux was looking for a new state-of-the-art solution.

CHALLENGES

The existing backup system had to be combined with the hyperconverged backup solution to be redesigned to cover the entire virtual infrastructure. To ensure data security, the university attaches great importance to encryption. Other relevant aspects included the ability to automatically move cold data to the cloud using different data storage and disaster recovery functions and compatibility with Dell EMC NetWorker.

SOLUTION

Infonika, a Cohesity partner, made it possible to architect the platform to meet university requirements. Thanks to an agentless architecture, the new Cohesity DataPlatform was able to integrate with the old system – a VMware and Avamar ecosystem.

Cohesity delivered four appliances with four nodes each, for a total of 14 nodes with two reserve slots. The university realised space efficiency improvements with Cohesity, allowing for 126 times more logical data to be stored than the previous backup solution. More nodes can also be added in the future, to increase performance and capacity linearly.

"We were convinced by the quality of Cohesity's and Infonika's offering due to the holistic approach. As an emerging market leader, Cohesity is agile and responds quickly to our needs and requirements."

MICHEL RUFFIEUX,

Storage Backup Manager, University of Lausanne

After a successful Proof of Concept, the University was able to deploy quickly and gain immediate benefits from Cohesity's high performance. "The quality of Cohesity's and Infonika's offerings were convincing because of their holistic approach. We achieved our goal of not exceeding 80 percent of the available volume six months earlier than expected. We are very satisfied with the solution," adds Ruffieux.



RESULTS

The new backup solution for the hyperconverged infrastructure is faster, more powerful, more automated and more scalable. Aside from deploying a modern backup and recovery solution, the University was also able to save cost.

Cohesity's web interface facilitates the recovery of a virtual Windows or Linux computer with granular files. This innovative approach to the use, management, and backup of secondary and primary data is one of Cohesity's strengths.

The University of Lausanne is also now securing critical data in encrypted form. A complete backup of the Exchange database takes only eight instead of 29 hours and the incremental backup was reduced to two hours from nearly eight.

Using Cohesity's SnapTree technology, the university can now restore entire server groups in parallel within seconds. The Recovery Time Objectives (RTO) are improved by a multiple.

The University of Lausanne realised many benefits with Cohesity including:

- Time of full backup for Exchange database reduced by 70 percent
- Significant cost savings with Cohesity implementation
- Improved RTO across the university environment
- Future scalability including hybrid cloud capabilities