

Object storage and innovation as building blocks for sync & share applications

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Cynny Space, one of the few 100% European cloud object storage providers, engineered an innovative object storage platform with a unique hardware/software infrastructure designed to meet the rising need of storage with an unprecedented level of efficiency.

Most innovative storage platform

The building block of the innovation is the smallest micro-server in the world, the first built with an ARM® CPU designed for efficient data management. Each micro-server is independent and directly connected to the internet and manages a single storage unit. 500 nodes (micro-servers and storage unit) are inserted in a rack and work in parallel to provide a high-density real-time archiving system.

Each micro-server is as smart as the others thanks to designed *swarm intelligence* methodology distributed across all the 500 nodes. There are no single points of failure and the system takes into consideration hardware fallibility.

Real world benefits

These innovations deliver several advantages compared to traditional storage solutions. ARM CPUs provide remarkable energy efficiency and lower heat generation. The overall result is a positive impact on the environment, reducing CO2 emissions by 74,8Kg per year for each TB stored, and lower costs for the storage user (0,01€/GB/month –space, redundancies, request and transfers included).

Another benefit is the lack of maintenance. The high redundancy and distributed file system allows the servers to run with close-to-zero levels of maintenance and close to perfect durability levels (99,999999999%)

Moreover, all data are stored in Europe and compliant to the EU regulation on data management.

Key applications of Object Storage

Main application of Object storage is to store large quantities of information, making it available across users or devices with simplified interfaces.

Interconnectability across multiple devices, from servers to IoT, is assured by the access via RESTful APIs and a comprehensive set of SDKs.

Versioning of files ensures long lasting consistency of data thanks to its intrinsic quality of making files immutable.

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