StackSync

Open Source Personal Cloud for Organizations

¿Do you Know…?

Your organization is dealing with an increasing amount of data, so your IT infrastructure may collapse soon and it also means another expensive investment.

Furthermore, **users need to access this information anywhere and anytime**. That's why they are using tools like Dropbox. However, as a consequence **sensitive data can get compromised** as it's no longer on their machines.

Where is your data stored?

Do you control your information access?

Is your sensitive data really secured?

It's time to retake the control of your organization's data!

StackSync, the Open Source Personal Cloud specially designed for organizations, takes care of your real needs and provides a cloud storage solution **with scalability, openness, security and privacy awareness**.

StackSync fits perfectly in any kind of organization (Enterprise, SME, Government, Educational, etc.) offering **adaptable cloud storage: private, hybrid or public**. Your cloud infrastructure will grow at the same pace as your real needs.

StackSync Features

SCALABILITY Unlike home solutions (e.g. OwnCloud) StackSync is using OpenStack Swift Object Storage technology, ensuring advanced data redundancy and scalability.

StackSync is also based on an advanced synchronization technology, similar to Dropbox, with data optimization (chunking, compression, bundling and push mechanisms) that allows it to scale to thousands of users with an efficient use of cloud resources.

OPENNESS StackSync lets different Personal Clouds share and access information located in different cloud providers by using our Open APIs. This avoids vendor lock-in and facilitates information sharing between different services.

Furthermore, StackSync is open to the community, which also means that third-party applications can use our APIs to integrate their services on top of StackSync.

SECURITY Protect your organization's data with the StackSync Zero-Knowledge security model, even using public cloud providers, thanks to our client-side encryption technology. All information is encrypted by the user before it is transmitted to the cloud (both metadata and contents)

PRIVACY AWARENESS StackSync will also provide an innovative and secure sharing mechanism based on Attribute Based Encryption, enabling fine-grained access control to shared information. Grant or deny access to your sensitive data, easily.

The StackSync privacy-aware sharing component gives the end user indicators about the risks that are posed by sharing data, and also proposes and implements policies that can be adopted to mitigate those risks.

ROBUSTNESS In a hybrid cloud setting, our solution keeps metadata (including cryptographic keys) robustly replicated on private infrastructure. Furthermore, it robustly stores data across multiple commodity clouds.

Keeping metadata always on-premise allows greater control over data and, at the same time, leveraging multiple clouds prevents vendor lock-in and offers seamless failover in case of underperforming, unavailability or even data corruption.

Use cases

Infrastructure provider (IaaS)

There is a big opportunity for those IaaS providers who want to **offer an innovative Personal Cloud** to their customers.

Cloud storage is a real need* for the foreseeable future, so organizations will demand efficient and secure solutions. That's why an IaaS provider can take advantage of StackSync by providing clients with the following services:

- **Public or Hybrid clouds based on the StackSync technology.**
- **Reselling cloud storage services as a "white label" cloud.**

StackSync helps IaaS providers to deploy an enterprise Personal Cloud for thousands of users at low cost. They will be able to update their services portfolio and engage customers with a Personal Cloud specially designed for organizations.

(Forrester 2011, "The personal cloud: Transforming personal computing, mobile, and webmarkets,")

Software provider

Software providers will improve their solutions building them on top of the StackSync platform and offering innovative services to their clients.

They can **take advantage of cloud storage features** and bundle their software with a Personal Cloud, focused on the organization's needs: security, scalability and openness.

If a software provider wants to partner with an IaaS provider, **StackSync can be deployed by the IaaS partner so the software provider would only need to care about its solution development**.

Small & Medium Enterprise (SME)

What if you could boost your SME like big enterprises do? StackSync proposes **two deployment scenarios focused on SMEs** in order to boost your storage in the cloud:

- **StackSync-P (Private Cloud)** can be deployed on-premise. **It means using your own real cloud, so you can finally retake the control of your data**. SMEs benefit from OpenStack Swift as a proven open-source cloud technology that can be adapted to their storage needs on the go.

- **StackSync-H (Hybrid Cloud)** keeps metadata of all outsourced data on-premise and provides robustness by replicating data across multiple commodity clouds, in a fully transparent way. SMEs will benefit from the best of both Public and Private Clouds. **StackSync-H can be tuned to optimize reliability, cost and performance**.

Public institutions

Public institutions like governments, hospitals, or universities have strong security and privacy requirements, so it's very important for them to use a Personal Cloud storage that meets these restrictive needs.

StackSync keeps citizens data in a cloud storage platform that lets you manage this big amount of information without breaches in your data security, nor big investments on IT infrastructure.

StackSync gives you the best from Dropbox and your current VPN connections. **Access your data where and when you need it in a secure way.**

Choose private, public or hybrid platform, depending on your needs or you can also combine them. For instance, you can deploy your private cloud only for very sensitive data and contract a public cloud service to reduce your IT infrastructure costs.