



Whitepaper

# Key values of Infinite Scale

# The Number One Platform for Secure File Sharing and Collaboration

ownCloud Infinite Scale is a Data Management Platform providing the tools to integrate, organize, share and govern data and metadata. It provides data access through a Unified Data Access Layer spanning across organizations' storage ecosystems. It supports building Cloud Data Ecosystems either operated within a single IS instance or by federating multiple Infinite scale instances.

They can be operated on-premises and/or in private, public or hybrid cloud environments.

Infinite Scale is a complete (and compatible) modernization of ownCloud 10 with a new and modern 3-tier architecture. We designed it for high scalability, speed, always focused on security, efficiency and flexibility, with open standard interfaces and task separation.

## Create your Cloud Data Ecosystem

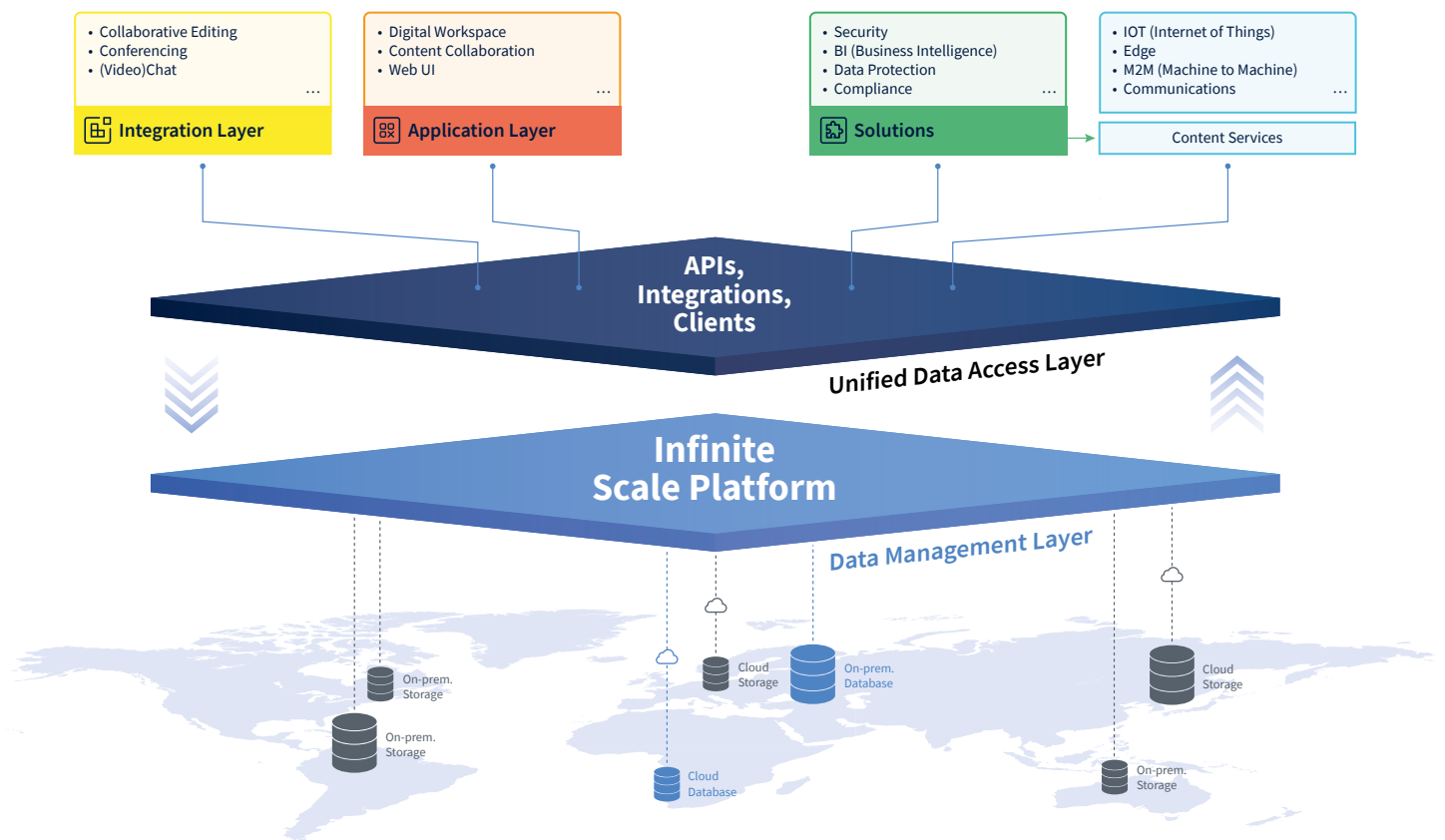


Figure 1: Create your Cloud Data Ecosystem with Infinite Scale

A new web interface brings many improvements in usability, the new backend allows integration and management of all of your data silos, making it easy for both your users and administrators. Thanks to the new, “cloud-native” architecture customers are prepared for integrating their data fabrics, meta data management, semantic searches and artificial intelligence applications.

Infinite Scale is flexible, transparent, fast, enterprise grade and easy to use: The #1 platform for secure file and collaboration sharing.

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## Flexibility

- Bring all your Data Silos together by uniting various distributed, hybrid data sources in one management tool
- Deploy Infinite Scale as a cloud data ecosystem, as single instance or by federating private, public and hybrid cloud environments
- Enjoy the convenience of Software-as-a-Service (SaaS), but on premise, in the safety of your own private cloud, in your data center

## Transparent

- Infinite Scale is open source. As a data management platform it provides the tools to describe, organize, integrate, share, govern and implement data and metadata
- Save money by reducing complexity and cost, leverage the inherent value of your data!
- Make your data findable wherever they are stored!

## Fast

- Automation and easy deployment at low TCO but with unlimited scalability,
- Leverage the inherent value of your data by reducing complexity and make data findable for your users.
- Infinite scale is capable of up to 150.000 file actions per second. This was necessary for our customers at CERN and is only possible with the modern, cloud-native and database-less stack of Go and Microservices.

## Enterprise grade

- Thanks to the new software architecture, Infinite Scale runs in any cloud, on any hardware and scales perfectly to your needs.
- Infinite scale provides the foundation to work with your data, no matter how many and where they are stored.
- For any amount of data, Infinite Scale grants a cloud based Unified Data Access to its users, making data manageable and controllable
- Infinite Scale services the needs of customer's data strategy with a key focus on supporting data fabric architectures

## Easy to use

- Gives your users a modern and fast interface to work with
- Supports native ownCloud Clients for desktop and mobile
- Spaces: A completely new concept, Spaces are as simple as folders, but extremely powerful and flexible data rooms (vaults) for project and team collaboration.
- File firewall, Rules & Roles and automatic security checks (for Viruses etc.) make it easy for your users to work more secure and compliant without even noticing.

# From EFSS to Data Platform

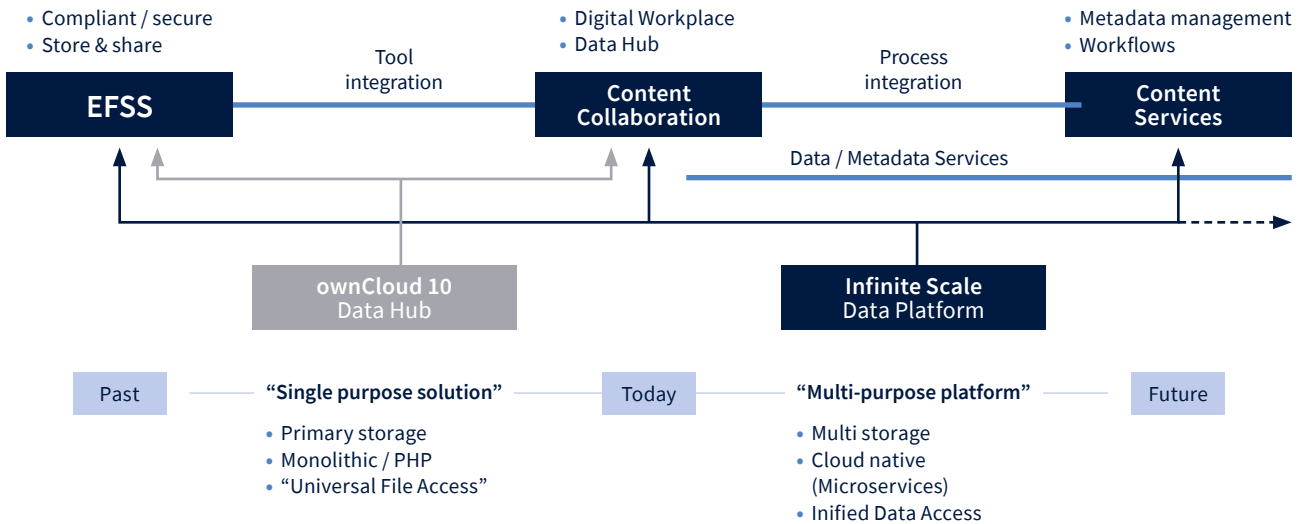


Figure 2: Evolution of Infinite Scale towards a Multi-purpose Data Platform.

## Ready for the Future of Data Fabrics

A data fabric architecture provides a connective tissue between data endpoints.

oCIS is designed to connect multiple storage backends and provide a unified data access layer on top of the storage. This allows to consolidate any existing data silos, securing customer’s previously made investments into data repositories by providing storage drivers and/or connectors to such data sources.

Metadata Extraction, Delivery and Management: oCIS will become the platform layer directly on top of your data.

Unified Data Access – Especially for analytics tasks, digital transformation shifts data consumption from the traditional data warehousing approach from the 90ties to an agile / on-demand data consumption and analytics model, where the consumer plays the central role. As a cloud native platform, oCIS serves this new data consumption model by providing Data Management as a Service (DMaaS) with a unified access to data through APIs.




## About ownCloud

ownCloud develops and provides open-source software for content collaboration, allowing teams to easily share and work on files seamlessly regardless of device or location. More than 200 million users worldwide already use ownCloud as an alternative to public clouds – and thereby opt for more digital sovereignty, security and data protection.

For further information, please visit [owncloud.com](https://owncloud.com) or find [@ownCloud](https://twitter.com/ownCloud) on Twitter.

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