Go Infinite Scale

How to Build an Open-Source School Cloud for 5 Million Users

and be better then every hyper scaler

ownCloud
A Kiteworks Company

Introduction

David Walter

- Project Lead
- CXO of ownCloud
- CISO of ownCloud
- DPO of ownCloud
- ownCloud OSS User & Admin since 2014

ownCloud

- Project launched 2010
- Infinite Scale GA 2022
- > 2.5 K Tenants
- > 1 M downloads
- backbone of Service Providers

Kiteworks

- ownCloud + Kiteworks
- Security-First Company
- Empowers ownCloud
  - Security driven
  - Privacy driven
  - Compliance driven
  - 24/7 operations
  - 24/7 support

Kiteworks Acquires ownCloud!

Expanded Product Range and Strengthened Resources: Experience a broader range of innovative products and enhanced support, providing a comprehensive solution for content sharing and collaboration.

Secure and Compliant Data Management: Unwavering commitment to data privacy and sovereignty, with consistent data privacy policies under Kiteworks and ownCloud's adherence to strict data protection standards.

Continued Support and Innovation: Ongoing support for ownCloud 10 and the development of Infinite Scale, leveraging financial stability and expanded capabilities post-merger to deliver robust, scalable, and future-proof solutions.

Robust Growth and Strong Leadership: The merger lays a foundation for significant growth and enhanced product development, backed by the continuity of ownCloud's senior management and the expanded resources of Kiteworks.

Numbers

Bavaria

- 6.2 K schools
- 1.6 M pupils
- 116 K teachers
- 2 M parents
- 13 M inhabitants
- 4.7 M named Users

Germany

- 32 K schools
- 10.7 M pupils
- 820 K teachers
- 30 M parents
- 84.6 M inhabitants
- 40 M named users

EU

- 200 K Schools
- 73.9 M pupils
- 5.2 M teachers
- 300 M parents
- 447 M inhabitants
- 350 M named users

Sources: Bayerisches Staatsministerium für Unterricht und Kultus,
Federal Statistical Office of Germany (Destatis),
Statistics agency of the European Union (Eurostat)

ownCloud
A Kiteworks Company

Goals

- Data sovereignty

- Most Secure (BSI, GDPR)

- Digital accessibility

- Available, Stable, Reliable, Invincible

- Maximum Integration

- Scale-out without limits

- Updates without downtime

- Productive after 32 weeks

ownCloud
A Kiteworks Company

Infrastructure

Sovereign Cloud Stack

4 Data Centers in Germany	Two S3 Locations	4 Meta-Data Locations
240 k8s Clusters	52 * 2 PB S3 Storage	60.000 vCPUs & 120.000 GB vRAM

plusserver

ownCloud
A Kiteworks Company

Applications
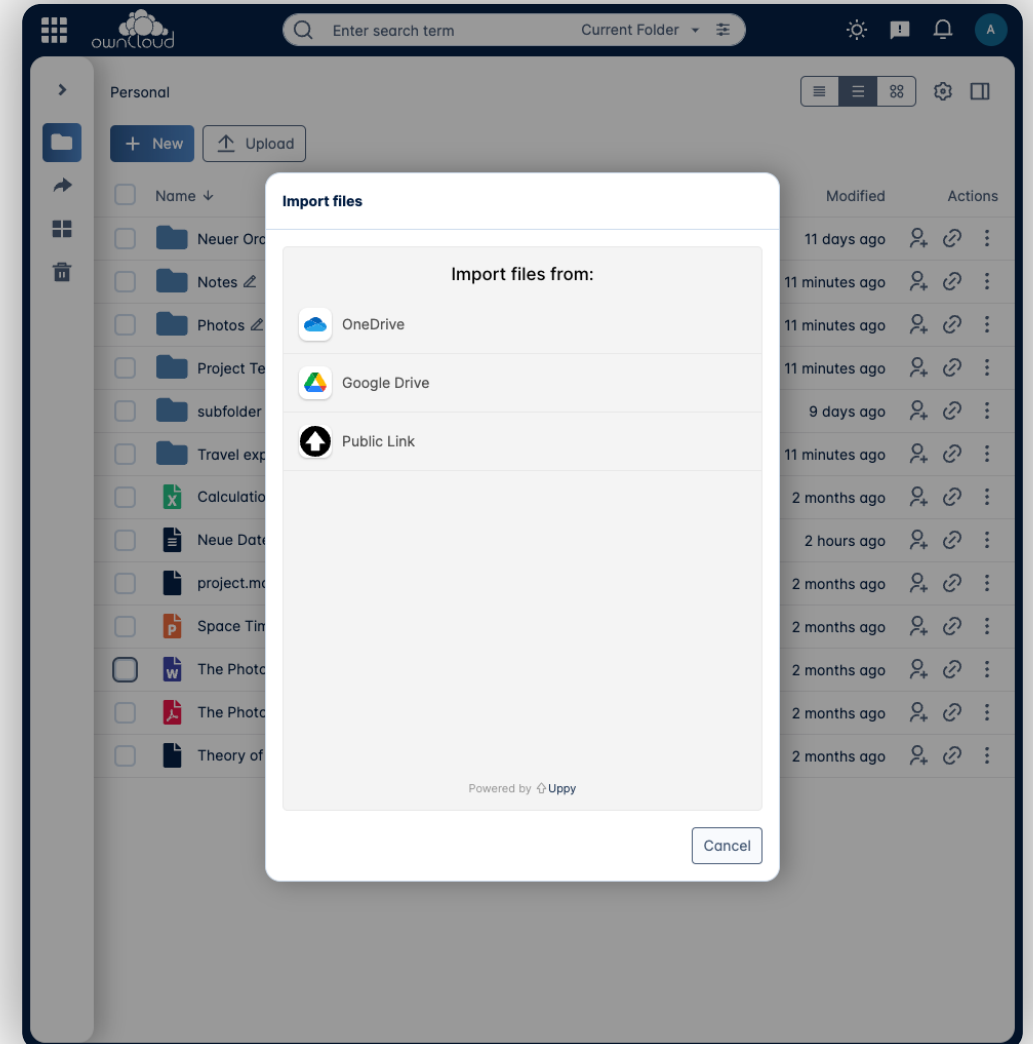
- ownCloud Infinite Scale
- ONLYOFFICE Document Server

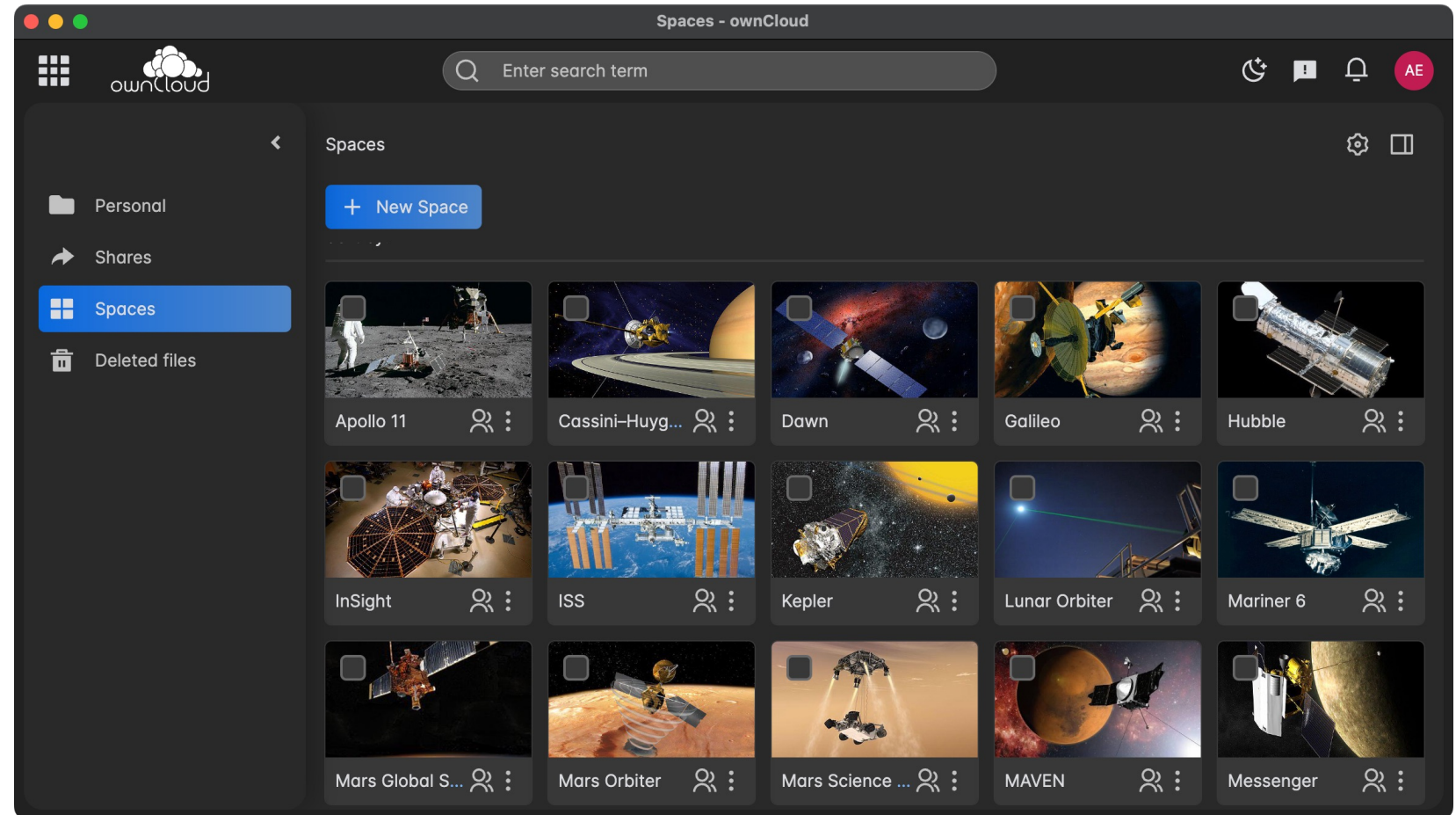# Why ownCloud Infinite Scale?
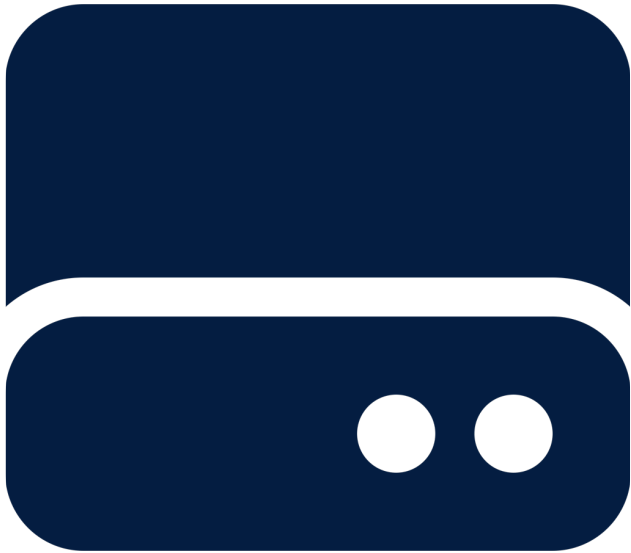
Reason # 1:
Liberate User Data

Sources:

- OneDrive
- Google Drive
- ownCloud 10 & Nextcloud
- many more

Reason # 2: Spaces

- Avoids data-silos
- Self-service
- Quota Management

Reason # 3: No Split Brain

The advantage of one source of truth vs. the disadvantage of file storage and database with meta data

Reason # 4:
iPad App

Just try it out yourself

ownCloud
A Kiteworks Company

Load & Performance Testing

- How to survive a lockdown?

- test-2-fail vs. test-2-pass

- 95% requests within 2 seconds

- Simultaneous UX-Testing

- Initial project and ongoing testing

k6

Grafana Labs

ownCloud
A Kiteworks Company

Software

- Full text Search and OCR
- Anti Virus Scanning
- SMTP Relay
- IDP/IDM

Monitoring

- Grafana
- Prometheus
- Mimir
- Tempo
- Loki

Grafana

Grafana Tempo

Grafana loki

Operations

- NGINX
- Ansible with AWX
- sonatype OCI
- HELM

The Universe

- Keycloak SSO
- Matrix Messenger by Sdui
- Geogebra Notes
- moodle
- visavid

One last word:
I hear rumors...

Date: 04/02/2024

ownCloud
A Kiteworks Company

… fact is:
ownCloud is the
Open-Source-Brand of
Kiteworks. Full Stop!

Date: 04/02/2024

Kiteworks Commitment to Opensource

Open-Source Foundation: Core of ownCloud's success lies in its open-source offering.

Collaboration with Kiteworks: Commitment to continued investment in open-source software and communities.

Five-Year Plan: Pledge to sustain open-source innovation for at least five years.

Bolstering Security: Kiteworks to strengthen the security framework in open-source initiatives.

📩 **hello@ownCloud.com**

💬 **ocis:matrix.org**

👩‍💻 **https://github.com/owncloud/ocis**

📄 **https://doc.owncloud.com/ocis/next/**

📑 **https://owncloud.dev/**