



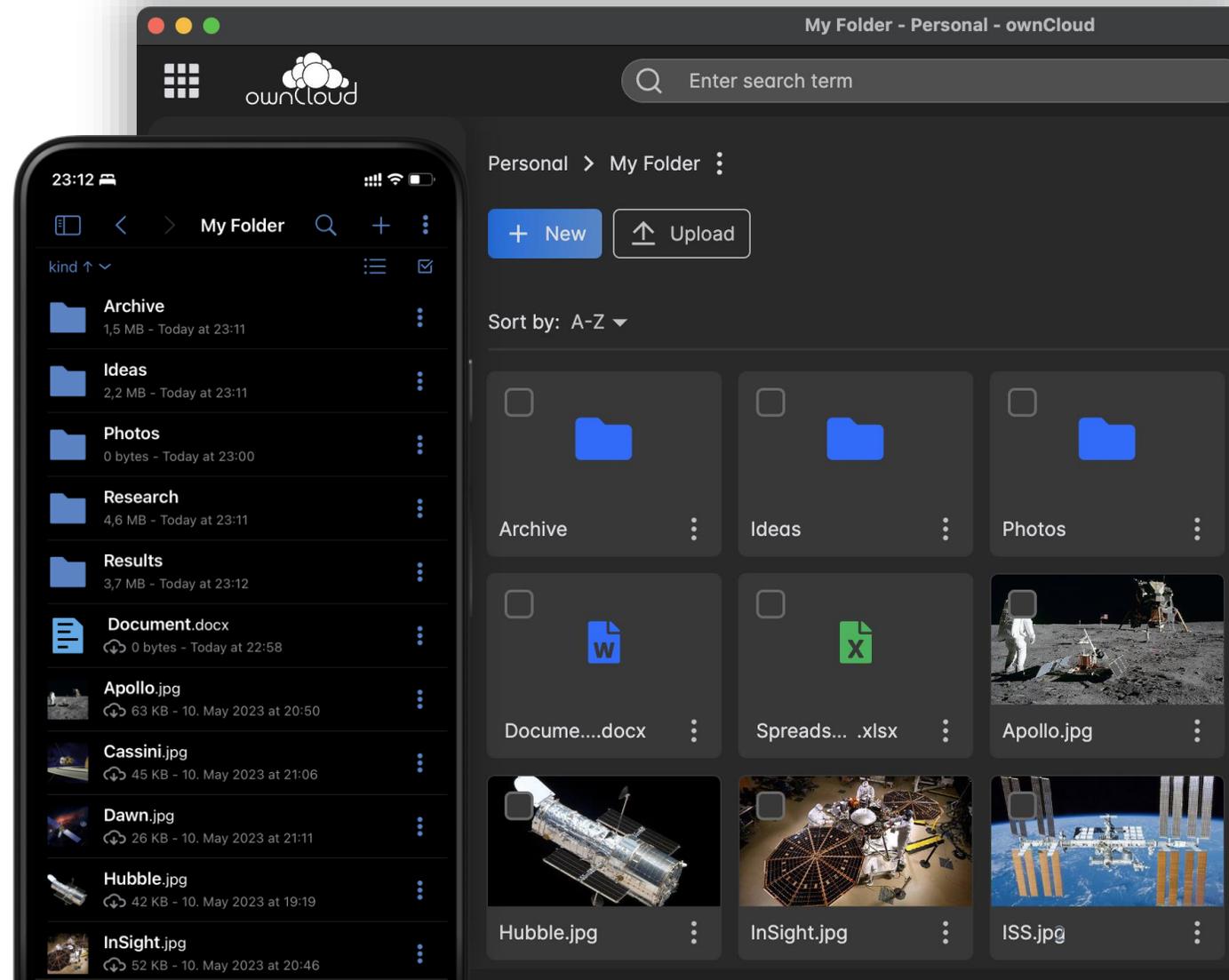
Secure Content Collaboration. **Simplified**

with ownCloud Infinite Scale

What you can do with ownCloud Infinite Scale

Simplify how you work with your files:

-  **Access**
-  **Share**
-  **Collaborate**
-  **Anywhere**



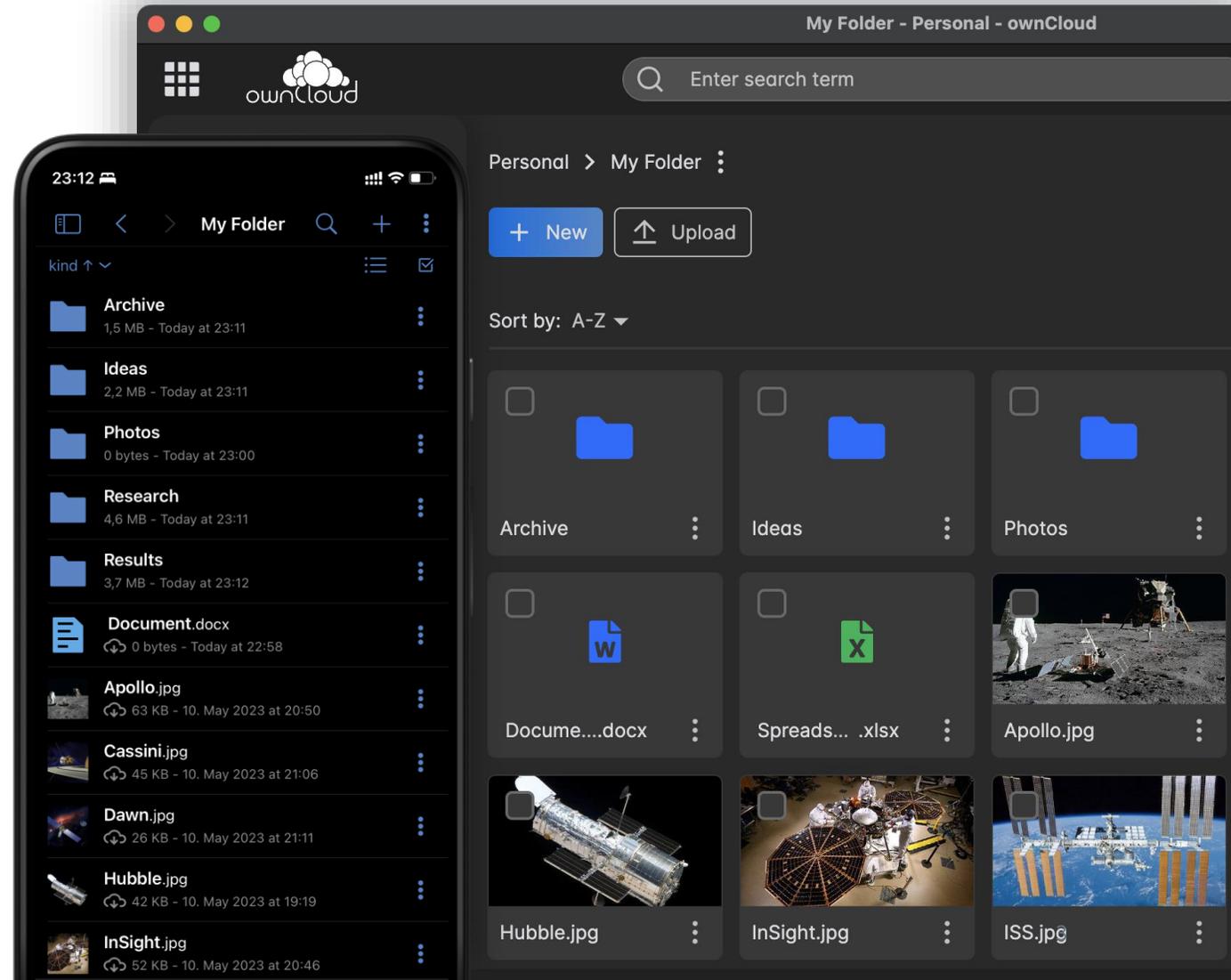
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☑ Simplified via



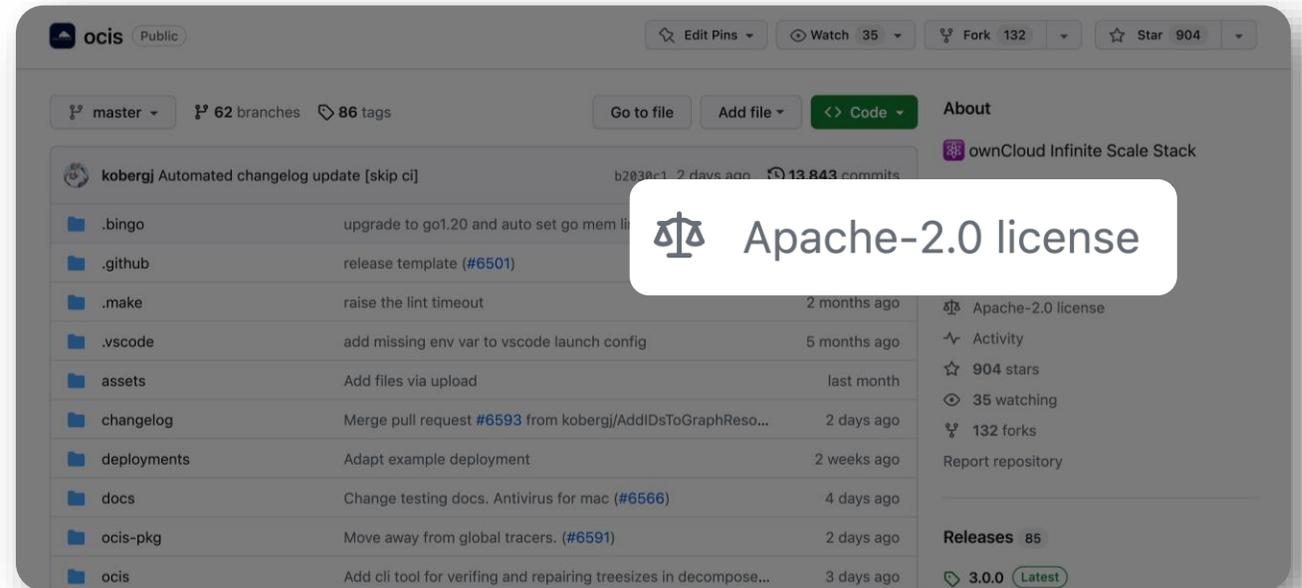
What makes Infinite Scale different from other solutions?



What makes Infinite Scale different from other solutions?

1. Open Source

- Vendor Independence
- Longevity and Sustainability
- Flexibility and Freedom
- Transparency



What makes Infinite Scale different from other solutions?

1. Open Source

2. Data Sovereignty

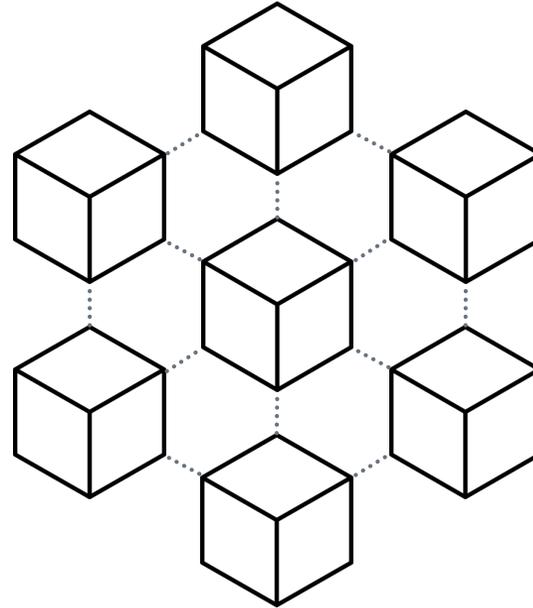
- Your data under your control
- Runs on your infrastructure, on-premises, as a managed service or in the cloud of your choice



Photo: Tophost (CC BY-SA 2.0)

What makes Infinite Scale different from other solutions?

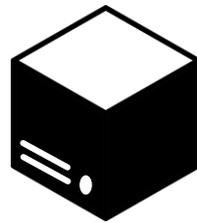
1. **Open Source**
2. **Data Sovereignty**
3. **Cloud Native**
 - Microservices



Why we moved to Microservices

Problem

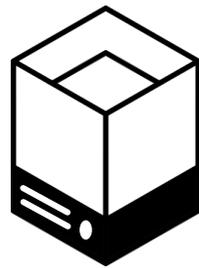
of a monolythic aritecture ex. in
ownCloud 10 / Nextcloud



Why we moved to Microservices

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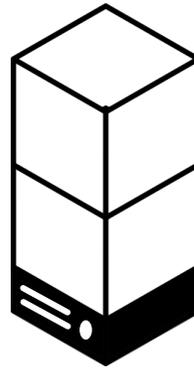


Linux

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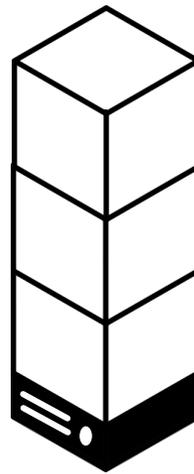
Apache Web Server

Linux

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MySQL Database

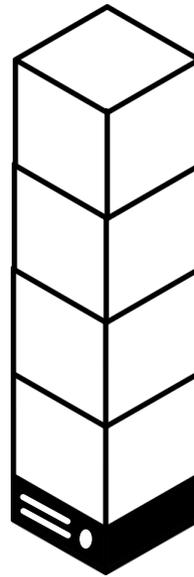
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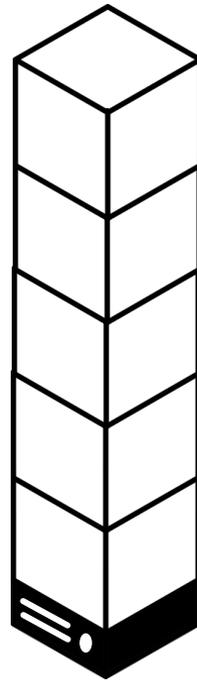
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Web Interface

PHP

MySQL Database

Apache Web Server

Linux

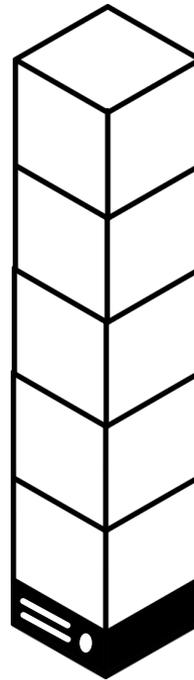
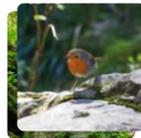
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*“Please generate small
previews for all of my 1.000
High-Res Photos!”*



Web Interface

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Apache Web Server

Linux

Personal > Photos

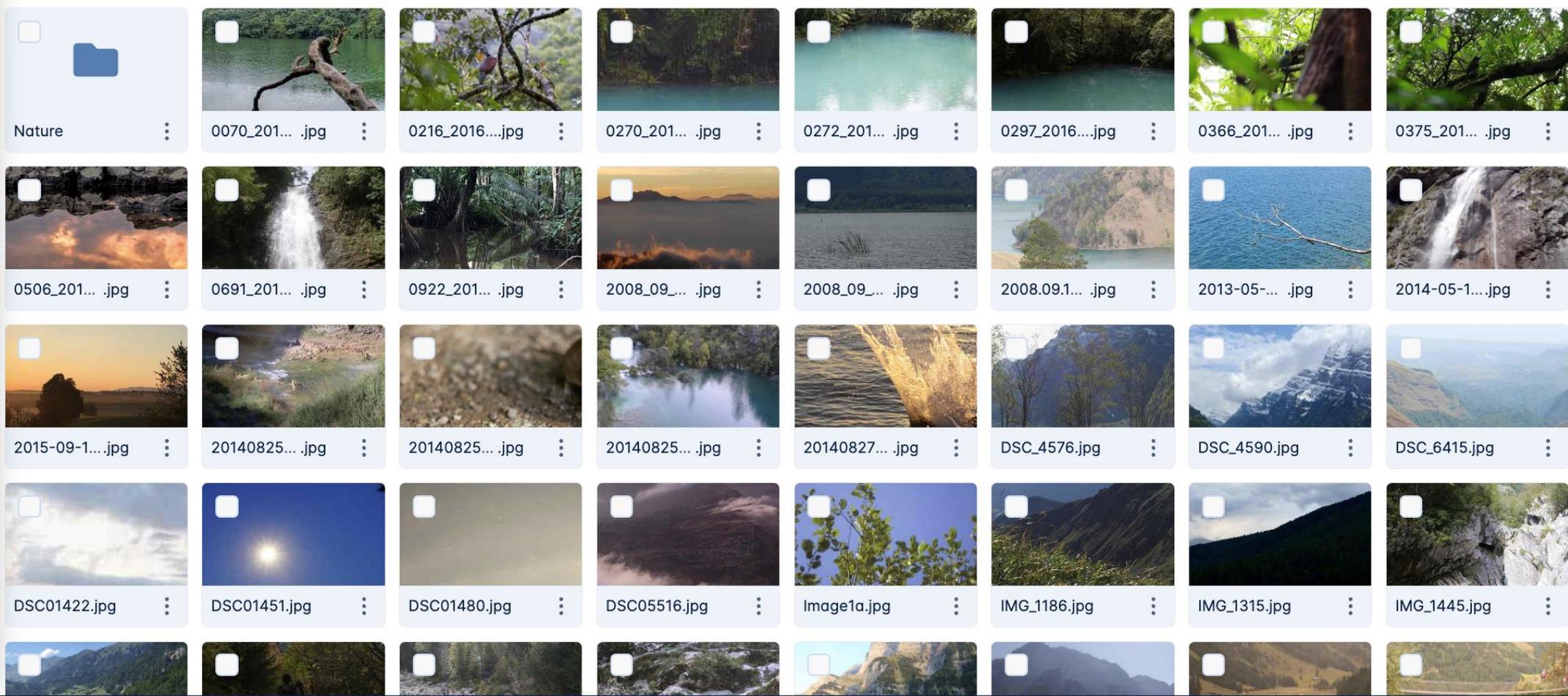
- Personal
- Shares
- Spaces
- Deleted files

+ New Upload

(We are talking about these images)



Sort by: A-Z



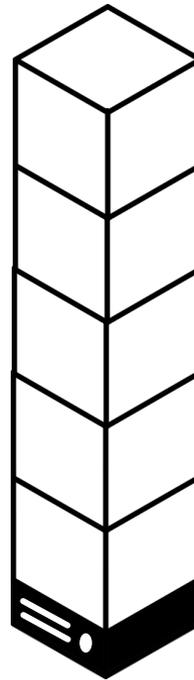
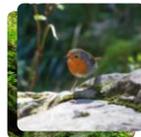
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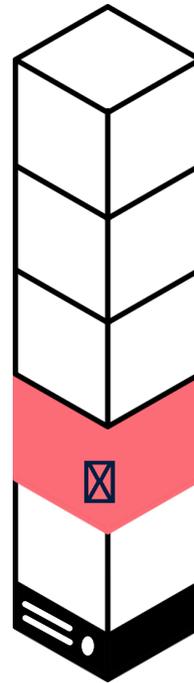
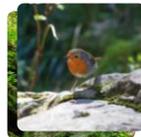
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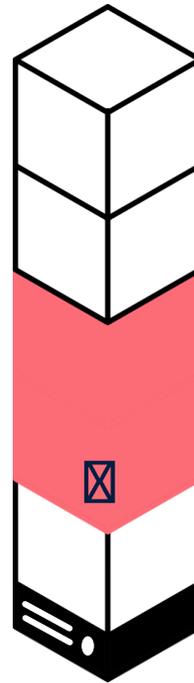
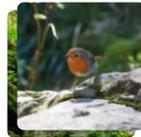
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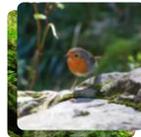
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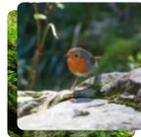
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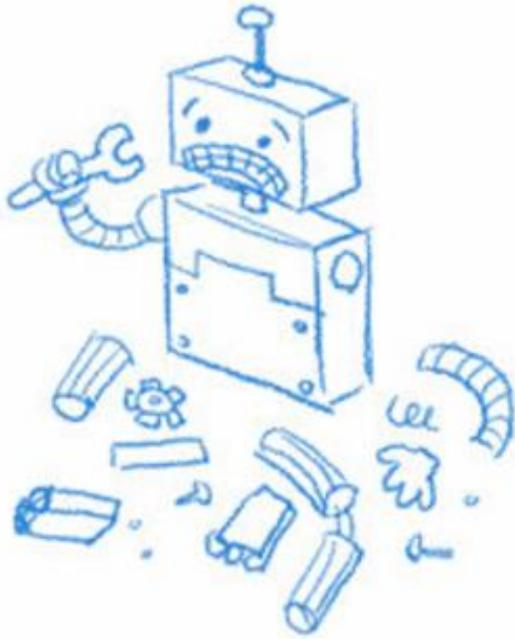
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Server Error

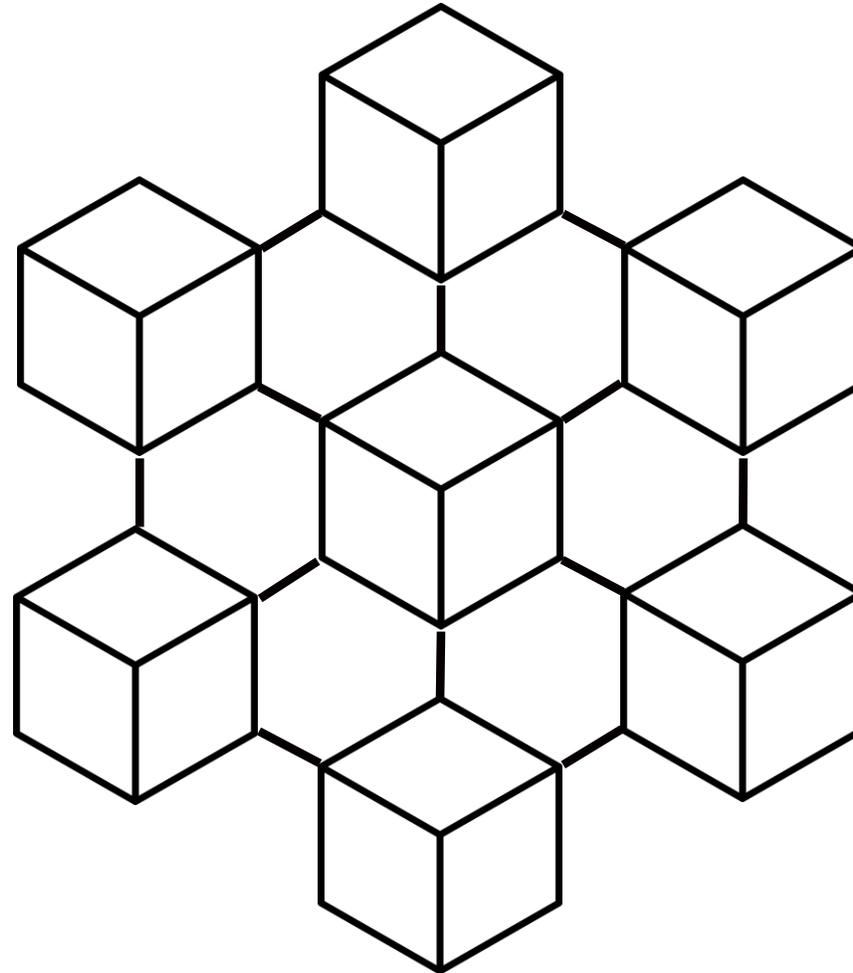


Advantages of Microservices

Advantages of Microservices

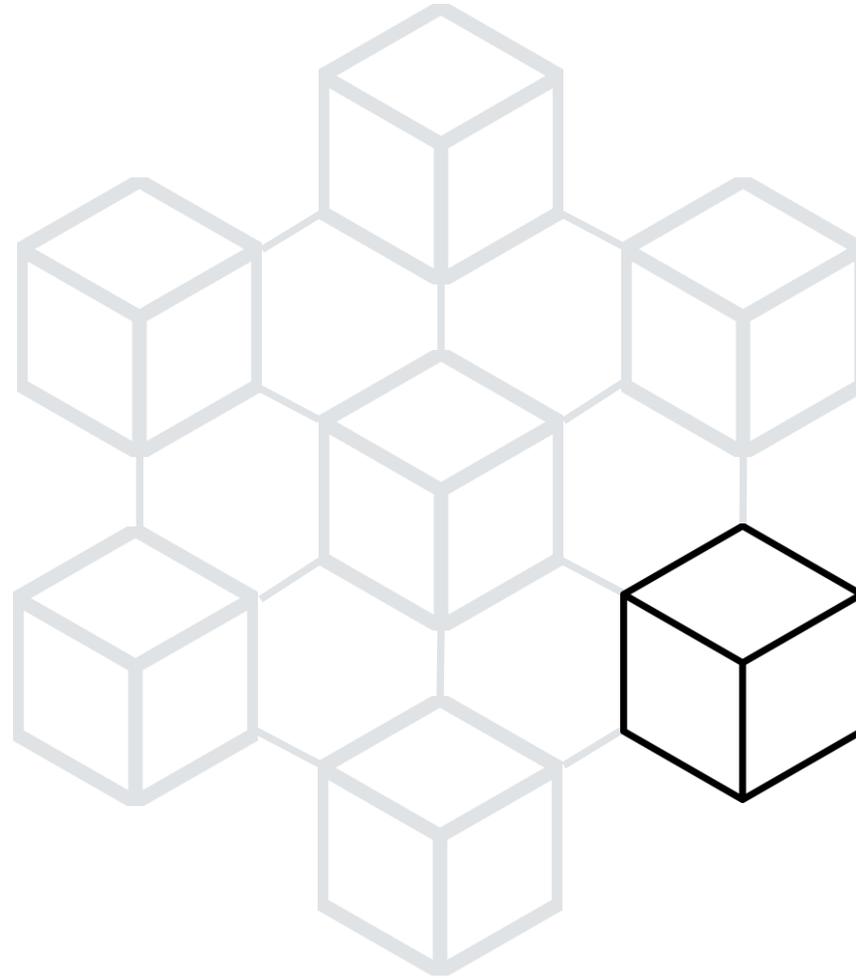
Examples of some Microservices in Infinite Scale

- Antivirus
- Audit
- Eventhistory
- Frontend
- IDM
- NATS
- Notifications
- Policies
- Search
- Thumbnails
- ...



Microservice

Advantages of Microservices



Microservice
to generate preview images

Advantages of Microservices



✗ **Microservice**
to generate preview images

✓ **Fault isolation,**
does not directly
affect the other
services

Personal > Photos

- Personal
- Shares
- Spaces
- Deleted files

+ New Upload

Sort by: A-Z

**Still the user does not see this,
as preview images could not get generated, but ...**

Nature	0070_201... .jpg	0216_2016... .jpg	0270_201... .jpg	0272_201... .jpg	0297_2016... .jpg	0366_201... .jpg	0375_201... .jpg
0506_201... .jpg	0691_201... .jpg	0922_201... .jpg	2008_09... .jpg	2008_09... .jpg	2008.09.1... .jpg	2013-05-... .jpg	2014-05-1... .jpg
2015-09-1... .jpg	20140825... .jpg	20140825... .jpg	20140825... .jpg	20140827... .jpg	DSC_4576.jpg	DSC_4590.jpg	DSC_6415.jpg
DSC01422.jpg	DSC01451.jpg	DSC01480.jpg	DSC05516.jpg	Image1a.jpg	IMG_1186.jpg	IMG_1315.jpg	IMG_1445.jpg

Personal > Photos

- Personal
- Shares
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- Deleted files

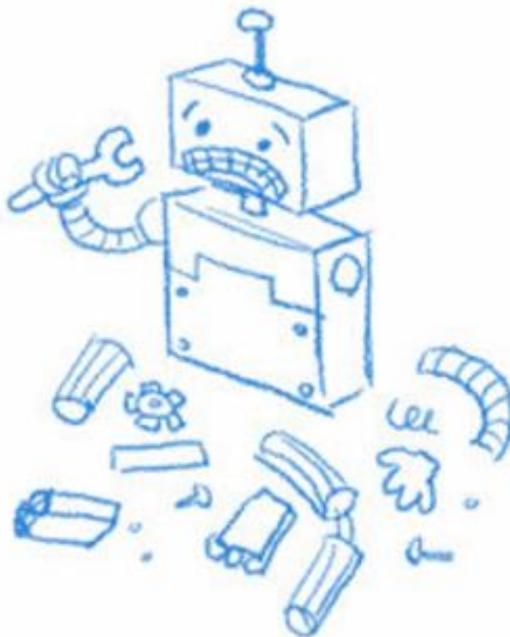
... the System is still up and running with a minor limitation of missing preview images

Sort by: A-Z

Nature	0070_201... .jpg	0216_2016... .jpg	0270_201... .jpg	0272_201... .jpg	0297_2016... .jpg	0366_201... .jpg	0375_201... .jpg
0506_201... .jpg	0691_201... .jpg	0922_201... .jpg	2008_09... .jpg	2008_09... .jpg	2008.09.1... .jpg	2013-05-... .jpg	2014-05-1... .jpg
2015-09-1... .jpg	20140825... .jpg	20140825... .jpg	20140825... .jpg	20140827... .jpg	DSC_4576.jpg	DSC_4590.jpg	DSC_6415.jpg
DSC01422.jpg	DSC01451.jpg	DSC01480.jpg	DSC05516.jpg	Image1a.jpg	IMG_1186.jpg	IMG_1315.jpg	IMG_1445.jpg

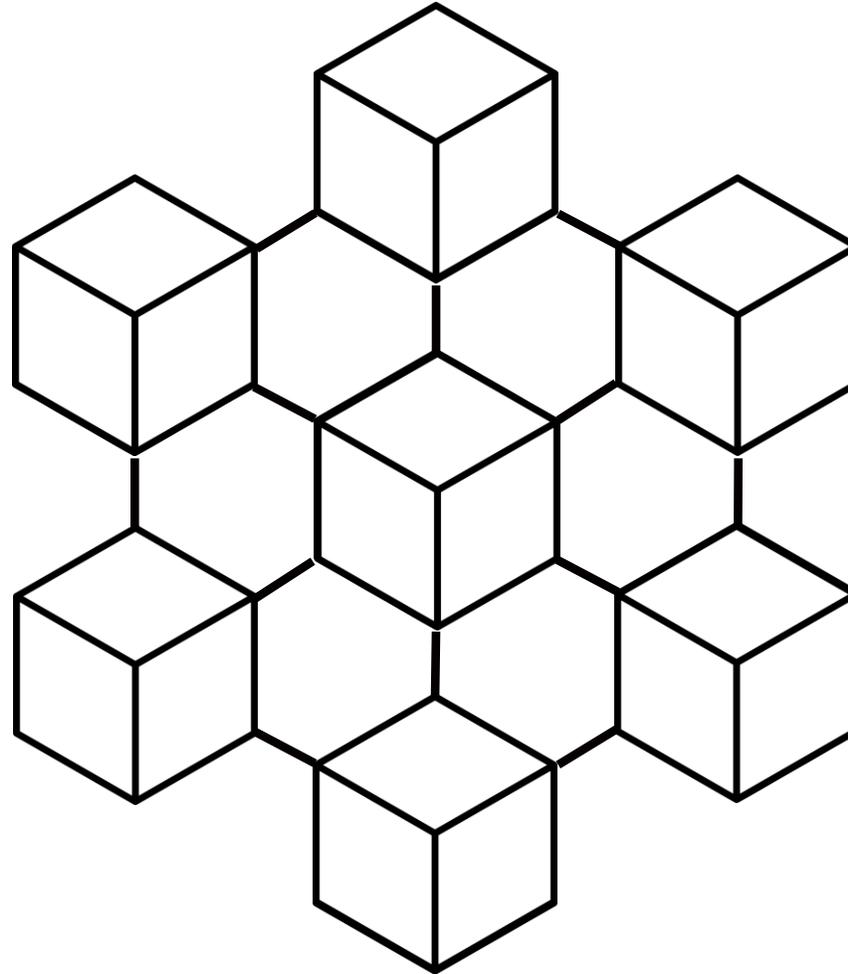
which is way better than this:

Server Error



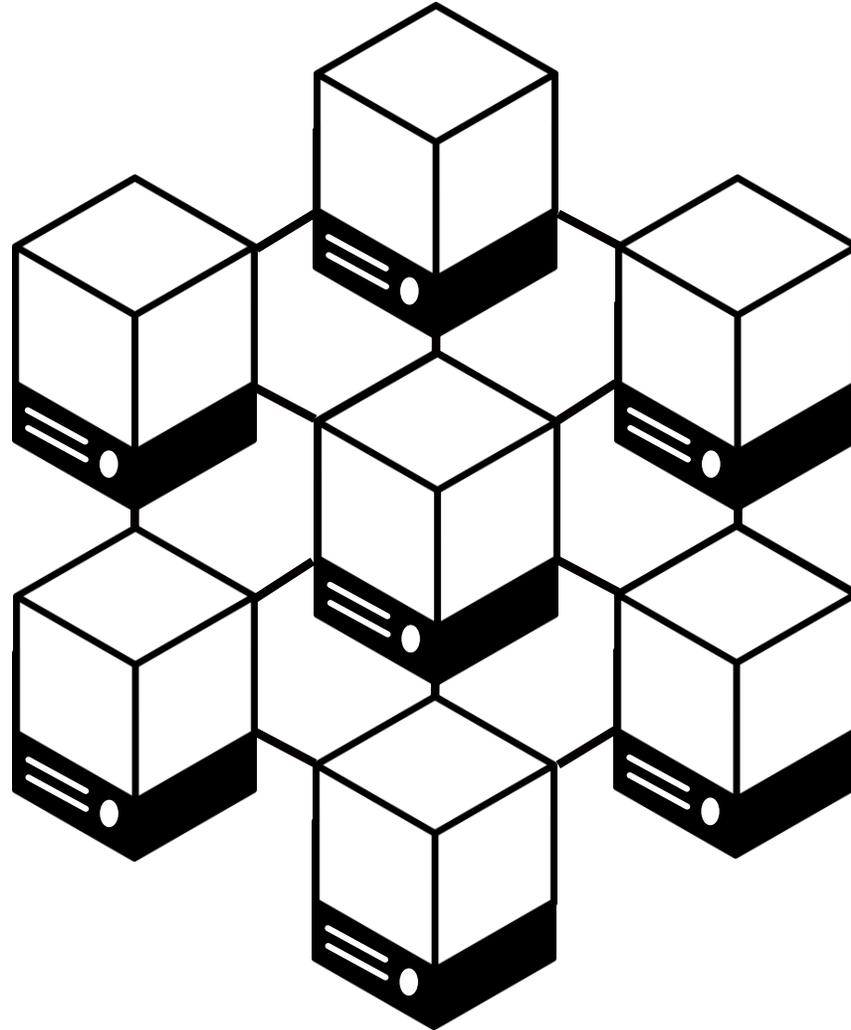
Advantages of Microservices

- **Fault isolation**
- **Scalability**
- **Resource Optimization**



Advantages of Microservices

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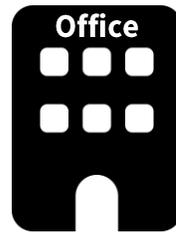


What makes Infinite Scale different from other solutions?

1. **Open Source**
2. **Data Sovereignty**
3. **Cloud Native**
4. **Databaseless**

The Problem

When you upload a file, 2 things happen

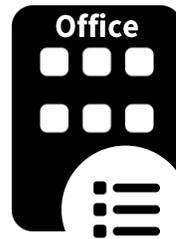


1.
File gets **listed** in the
database “office”



2.
File gets **stored** on the
storage “warehouse”

The Problem

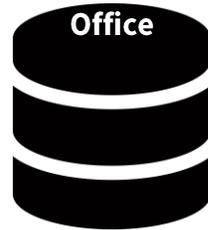


Paperwork
Metadata like the
filename, shares etc.



File
Actual file with its
binary data.

The Problem

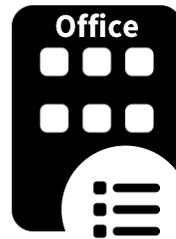


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Actual file with its
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The Problem



Paperwork
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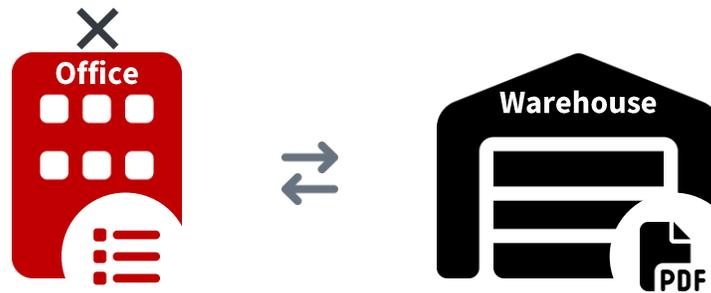
*Let me download
manual.pdf*



Office: “Ok, we found your file in our papers. Wait a second, we’ll bring it out from the Warehouse.”



The Problem



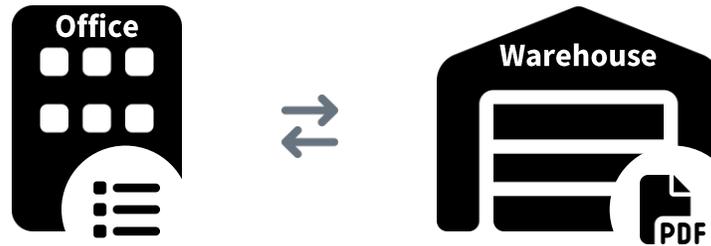
The Problem



⚠
If only one of both fails,
the entire system will fail!

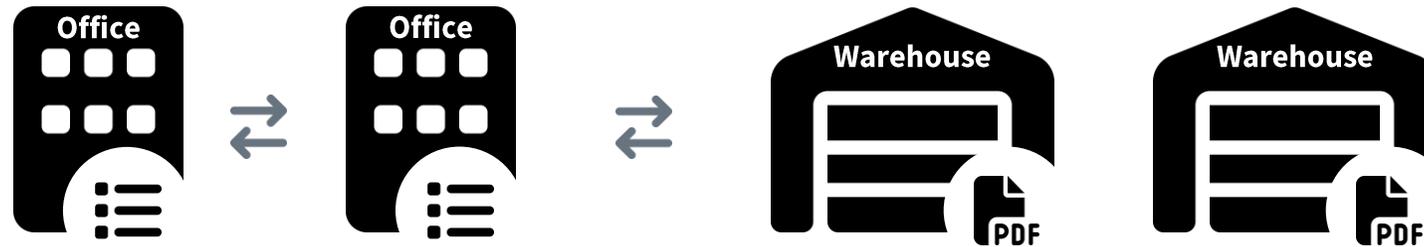
The Problem

More problems: If you store more data, you also need more databases



The Problem

More problems: If you store more data, you also need more databases



The Problem

More problems: If you store more data, you also need more databases



The Problem

More problems: If you store more data, you also need more databases



⚠
At some scale the system
gets **complex, error-prone**
and thus **cost-intensive**.

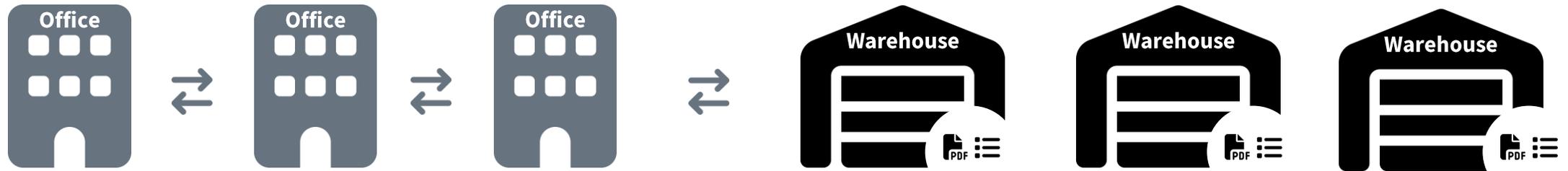
The Solution

Store Metadata on the storage



The Solution

Store Metadata on the storage



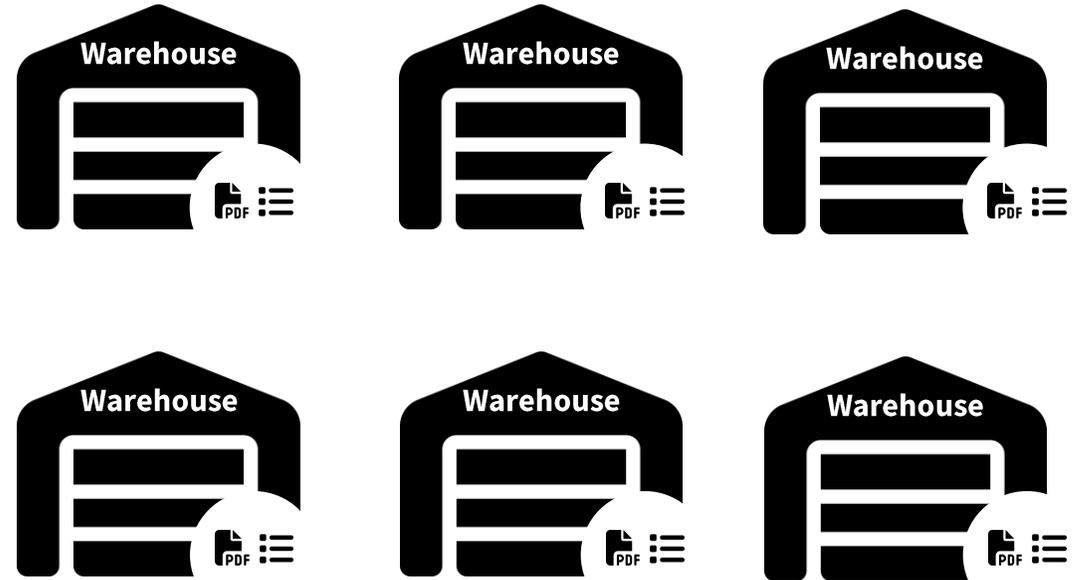
The Solution

Store Metadata on the storage



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The Solution

Store Metadata on the storage



The new Infinite Scale Server ensures
secure content collaboration, providing:

Resilience

The new Infinite Scale Server ensures
secure content collaboration, providing:

Resilience

Scalability

The new Infinite Scale Server ensures
secure content collaboration, providing:

Resilience

Scalability

Cost-Effectiveness

Infinite Scale from the **user perspective**

Features

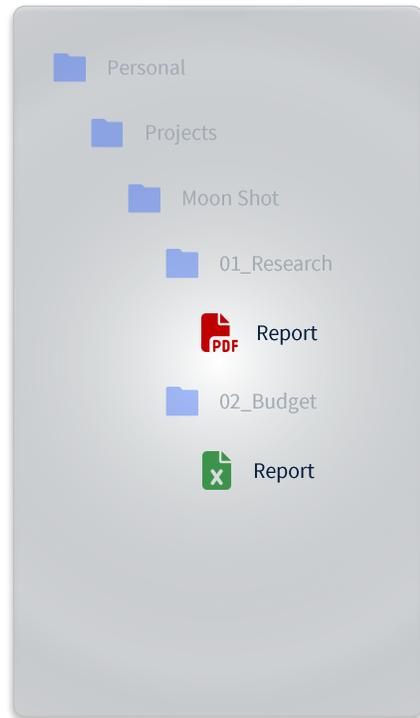
Sharing

and why you need Spaces

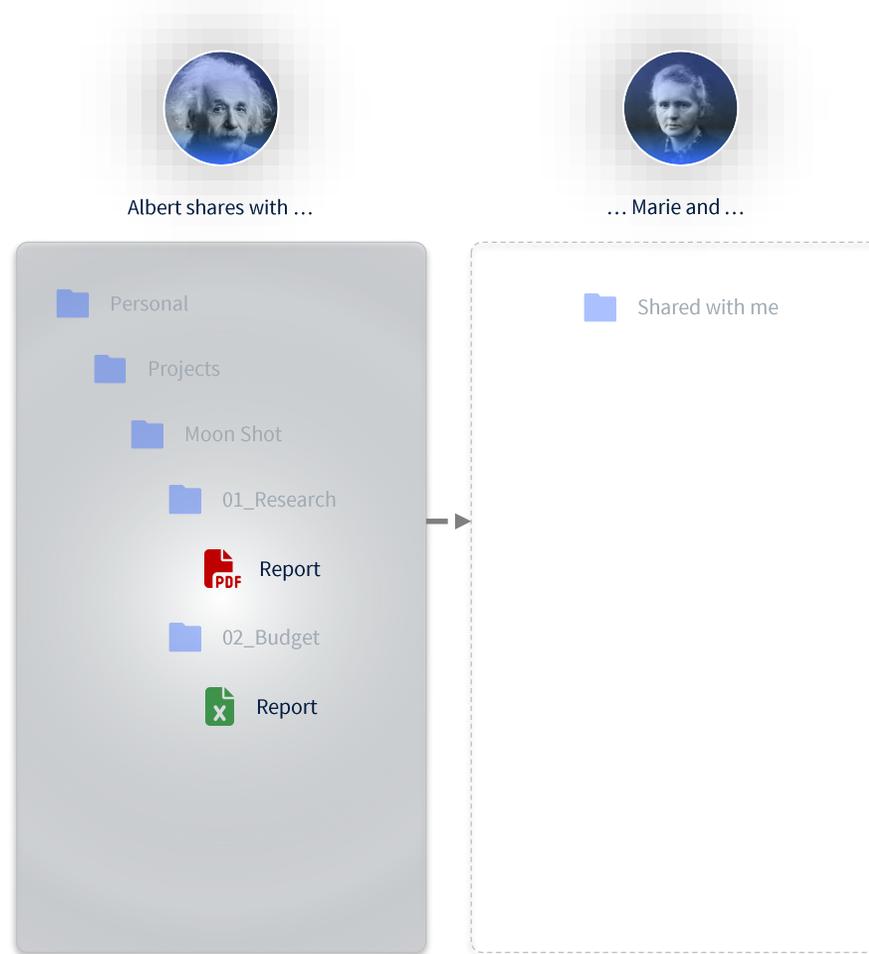
Organizing shared files



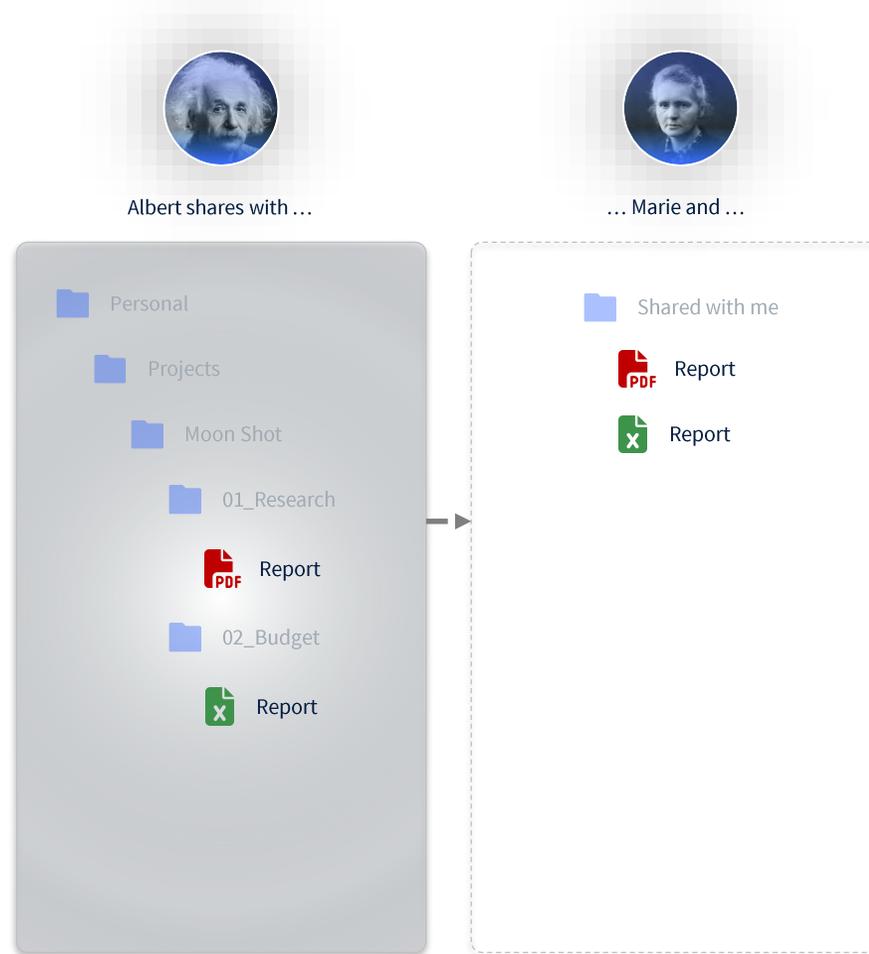
Albert shares with ...



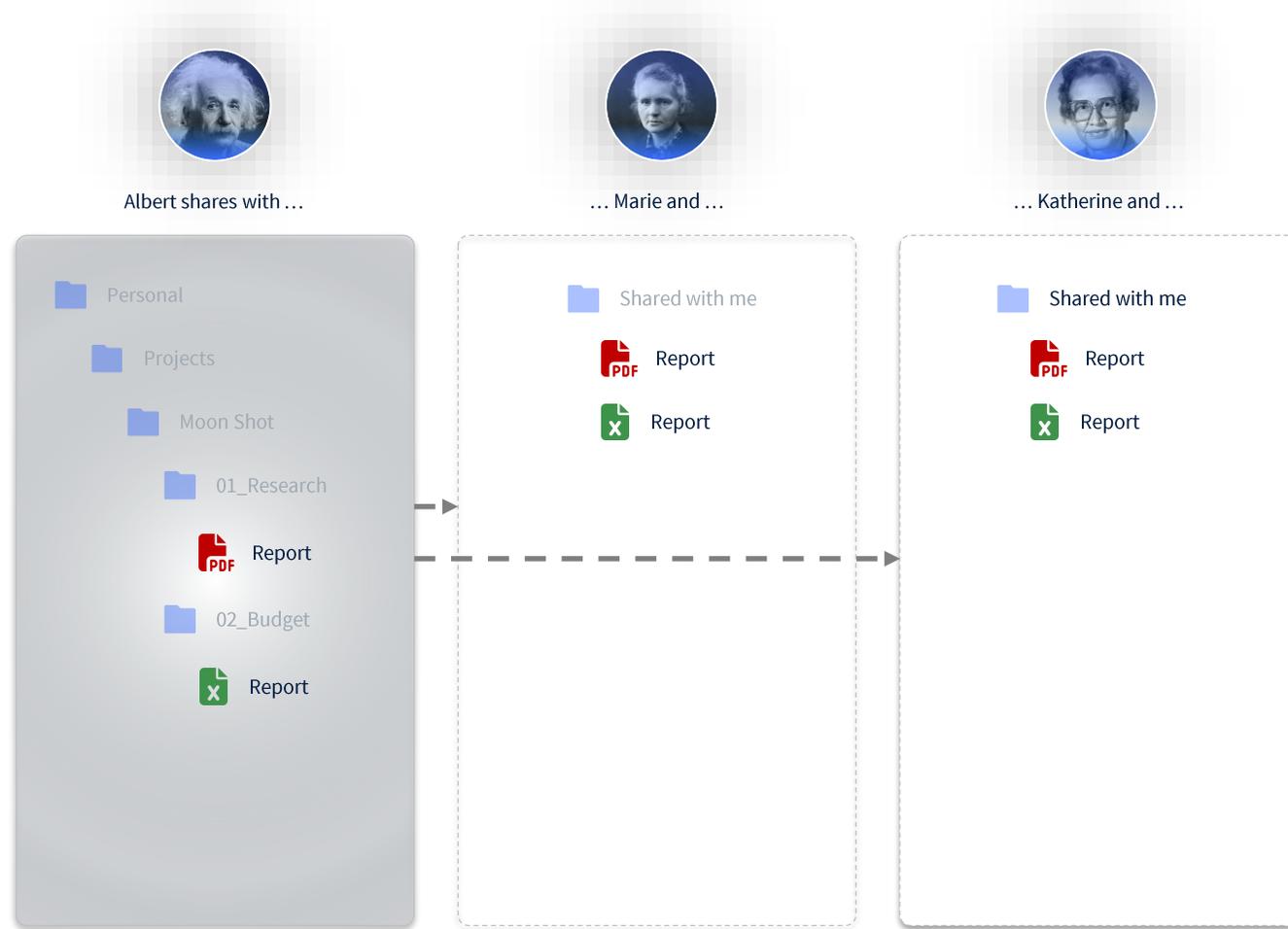
Organizing shared files



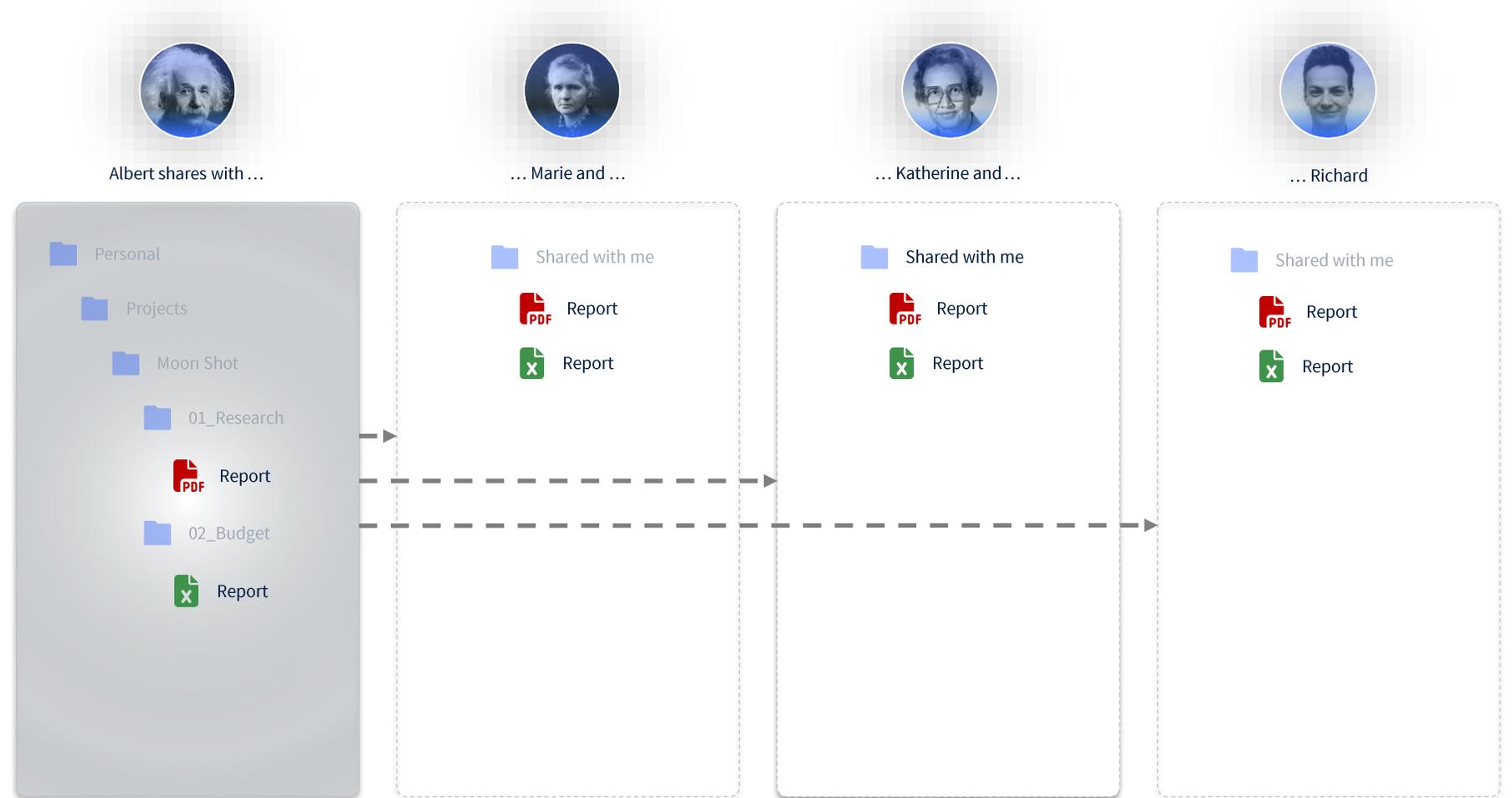
Organizing shared files



Organizing shared files



Organizing shared files



Problem

✗ Chaos in *Shared with me*

✗ Missing context

“Does this file belong to Project A or B?”

The screenshot shows the Google Drive interface. On the left is a navigation sidebar with options: My Drive, Computers, Shared with me (highlighted), Recent, Starred, Spam, Bin, and Storage. Below the sidebar, it shows '729.1 MB of 15 GB used' and a 'Get more storage' button. The main area is titled 'Shared with me' and contains a 'Suggested' section with two cards: 'Calculations.xlsx' (shared today) and 'Report.pdf' (edited today). Below this is a table of shared files:

Name	Shared by
Travel expenses	Tobias Baader
Project Template	Tobias Baader
Personal Photos	Tobias Baader
Personal Notes	Tobias Baader
Theory of Relativity.md	Tobias Baader
The Photoelectric Effect.pdf	Tobias Baader
The Photoelectric Effect.docx	Tobias Baader
Space Timepptx.pptx	Tobias Baader
Report.pdf	Tobias Baader
Report.pdf	Tobias Baader
project.md	Tobias Baader
file_example_AVI_1920_2_3MG.avi	Dr. Richard H...
Calculations.xlsx	Tobias Baader ⁵⁸

A red arrow points from a brain icon to the 'Report.pdf' entries in the table.

Problem

✗ People leave with projects

As project files live within their personal folders



Albert moves to Princeton and forgot to handover his files

Solution

Spaces



Enter search term



AE



Spaces



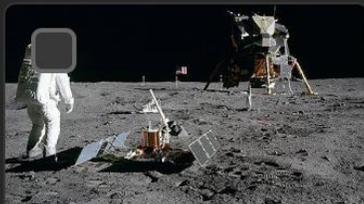
Personal

Shares

Spaces

Deleted files

+ New Space



Apollo 11



Cassini-Huyg...



Dawn



Galileo



Hubble



InSight



ISS



Kepler



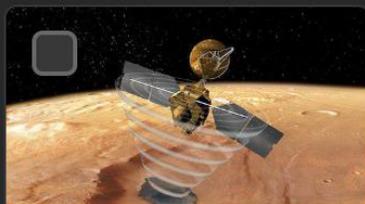
Lunar Orbiter



Mariner 6



Mars Global S...



Mars Orbiter



Mars Science ...



MAVEN



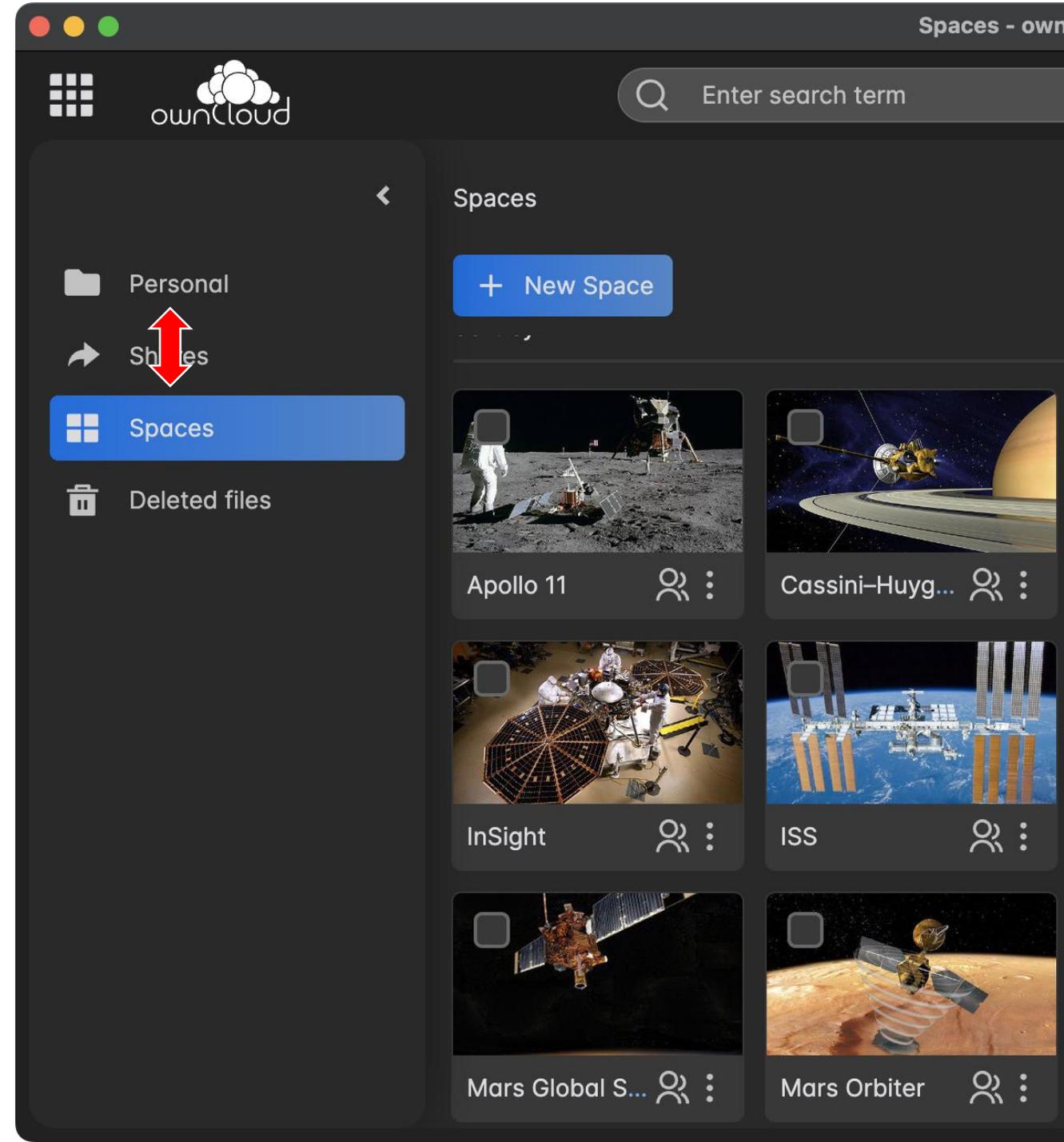
Messenger



Spaces

Spaces simplify collaboration on files

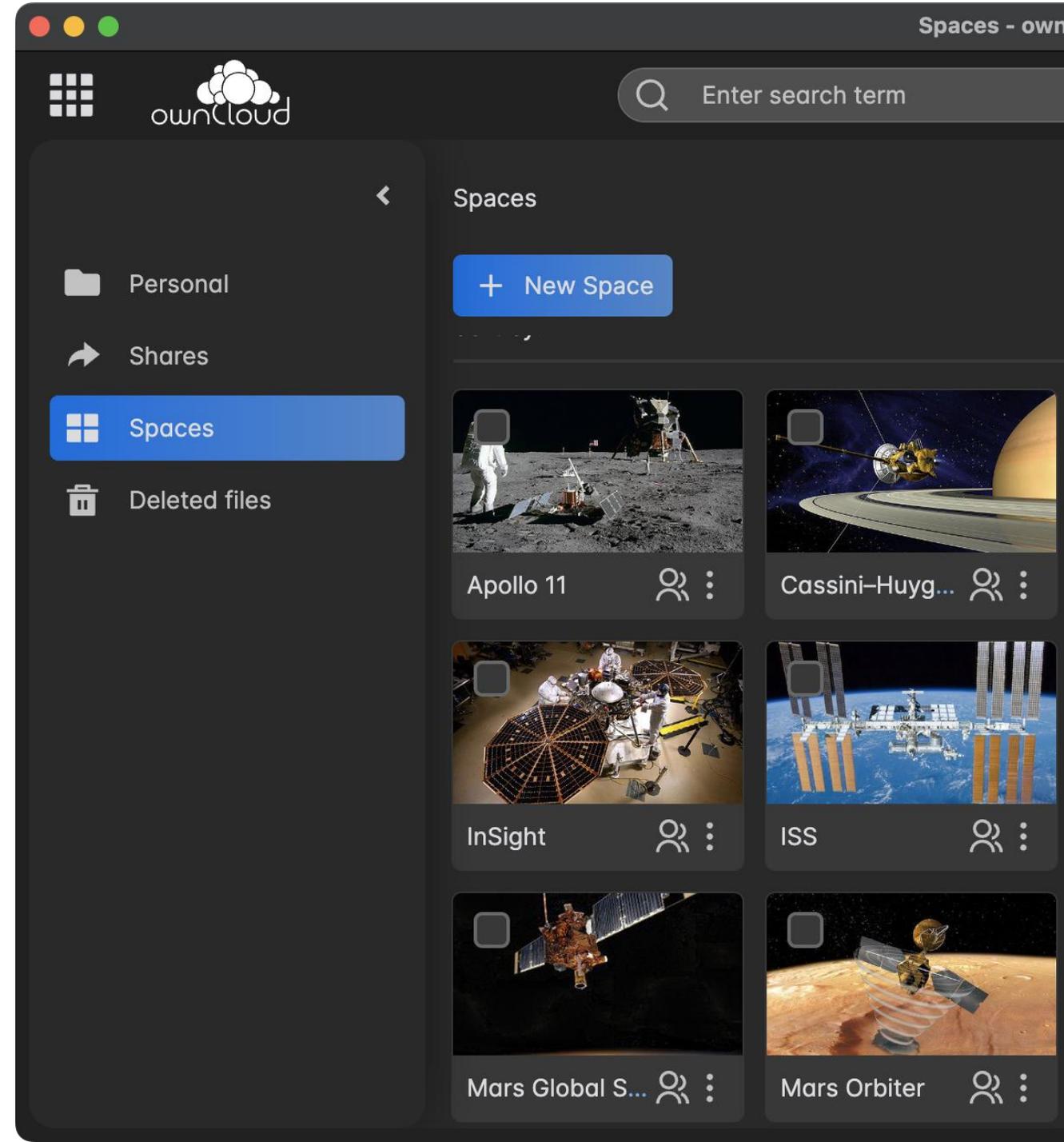
- **Separate** location from the *Personal* files



Spaces

Spaces simplify collaboration on files

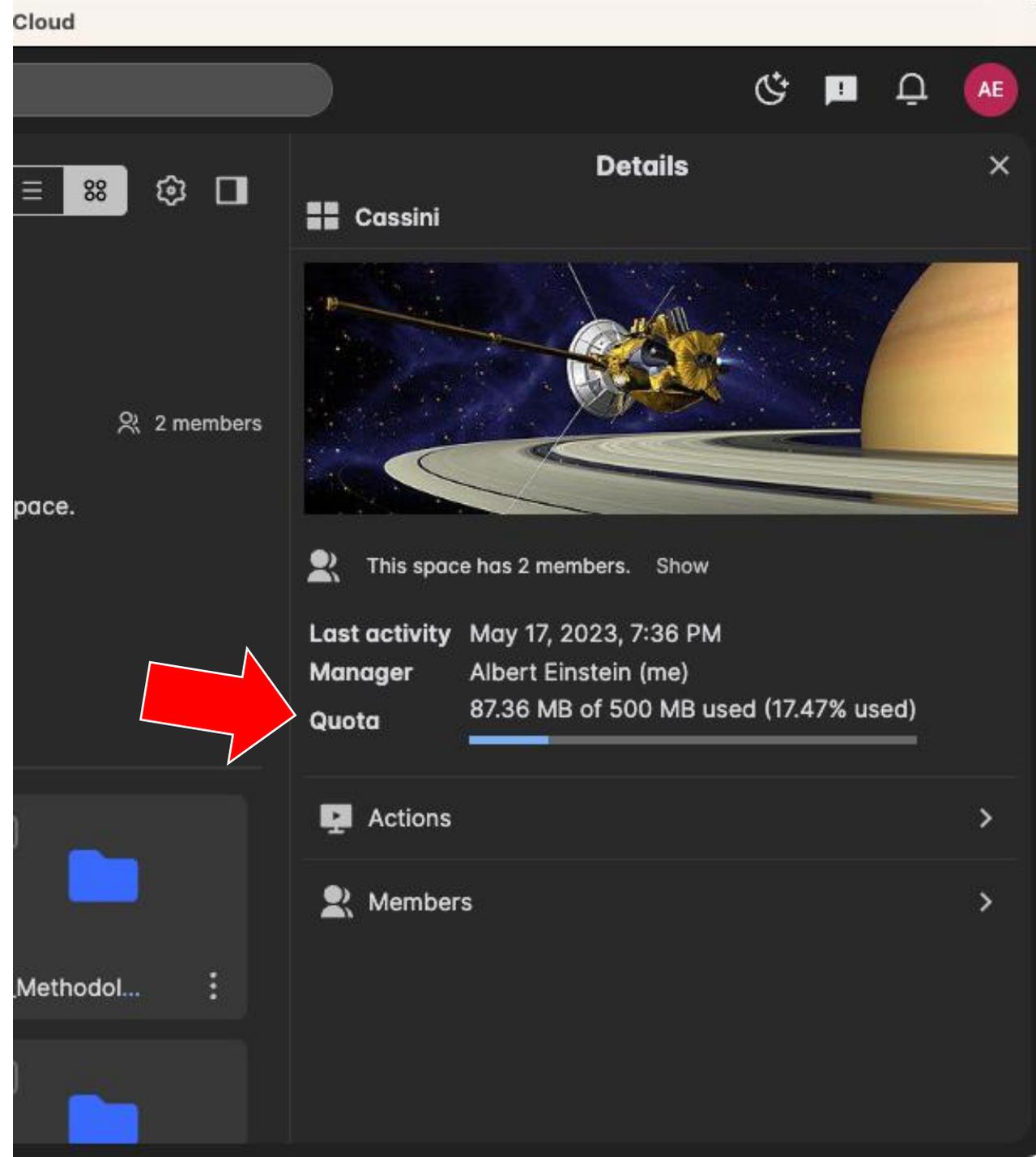
- **Separate** location from the *Personal* files
- **Collaborate:** Ideal for shared files e.g. for projects, departments or school classes



Spaces

Spaces simplify collaboration on files

- **Separate** location from the *Personal* files
- **Collaborate:** Ideal for shared files e.g. for projects, departments or school classes
- **Quota:** Spaces can have a quota



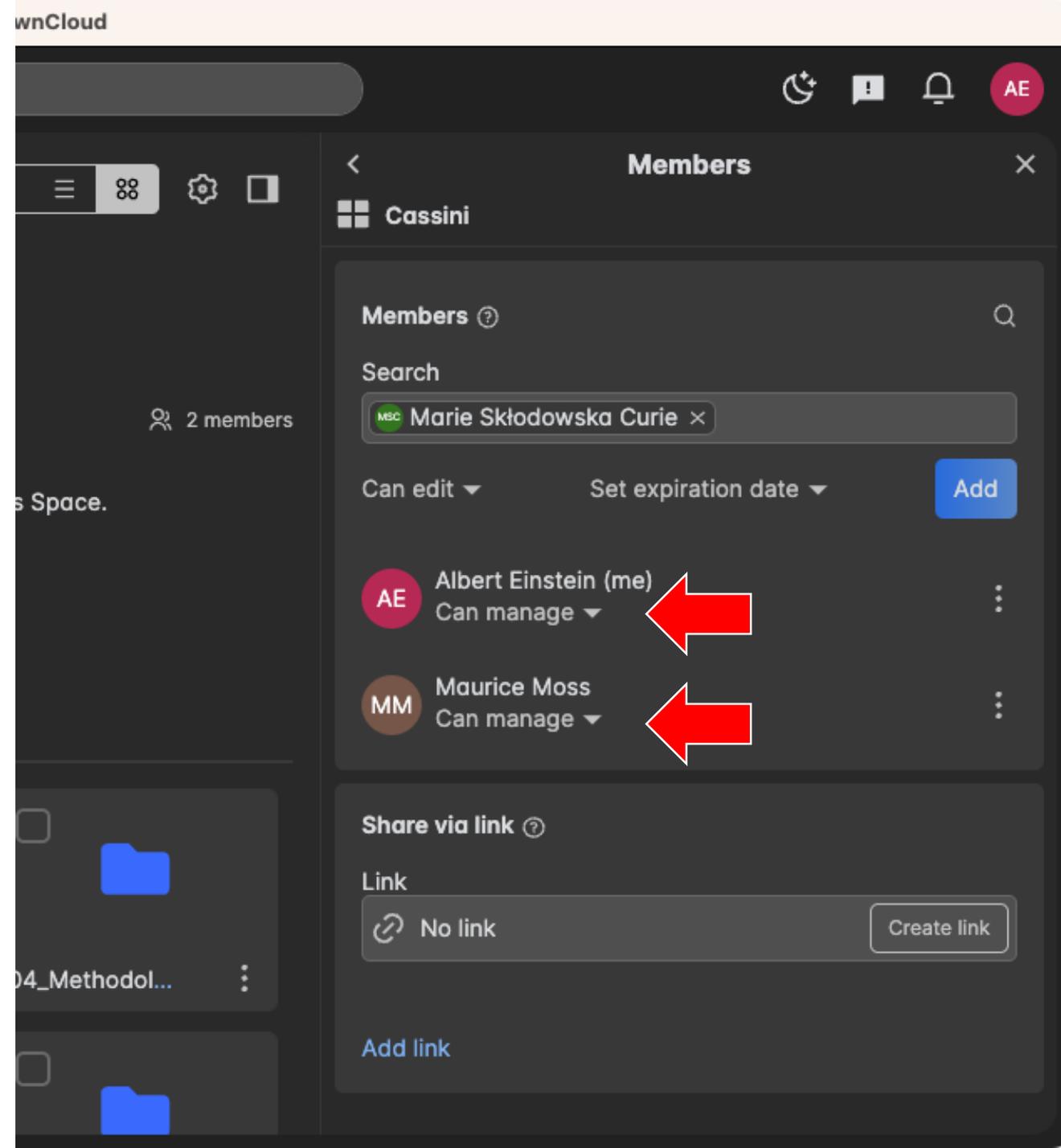
Spaces

Spaces simplify collaboration on files

- **Separate** location from the *Personal* files
- **Collaborate:** Ideal for shared files e.g. for projects, departments or school classes
- **Quota:** Spaces can have a quota
- **Manager:** Spaces always have a *Manager* who is responsible for quota and access
- **Transfer:** Spaces can have multiple Managers e.g. to transfer a Project



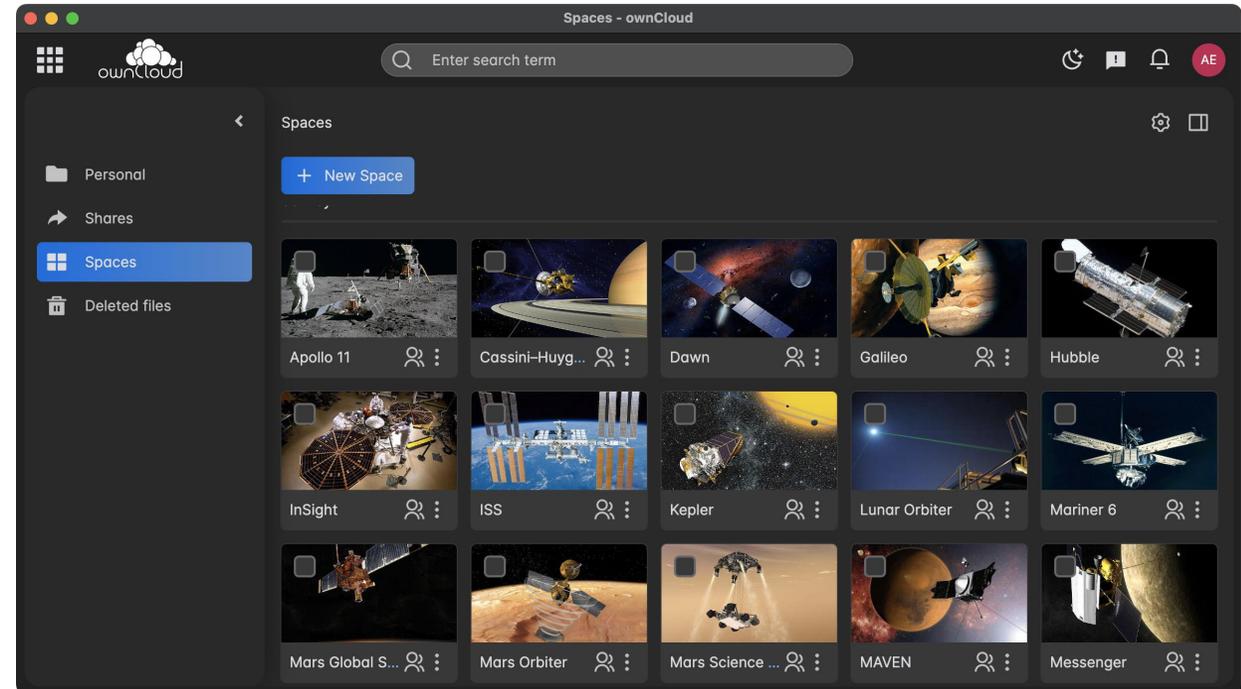
Transfer



Advantages for the organization

Advantages from an organizational view

- Spaces avoid personal (employee) **data-silos** “by design”
- Spaces increase **security** as they strictly separate personal from project related files
- **Self-service**: Spaces lower support efforts for admins as they focus on self-service for users



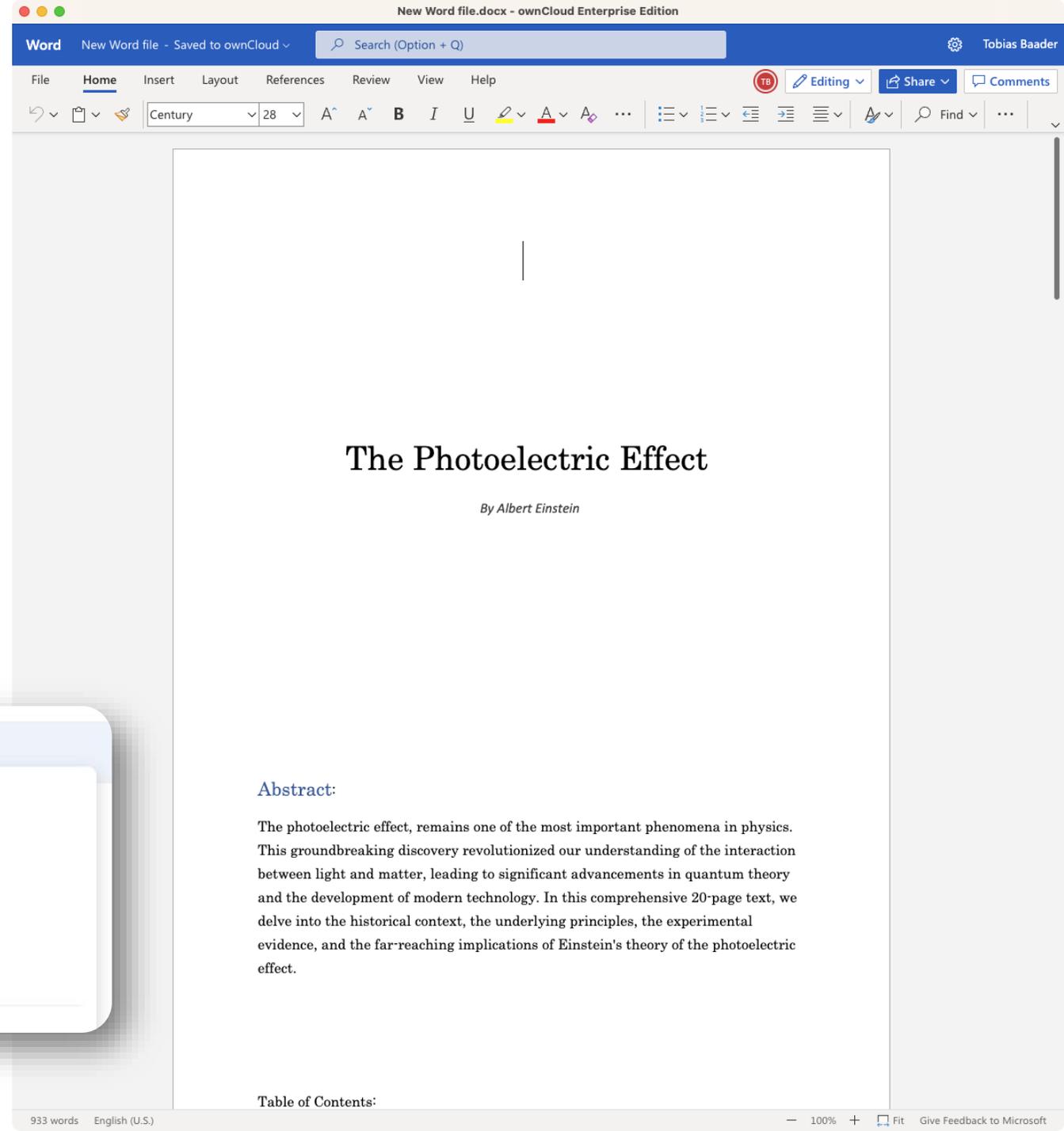
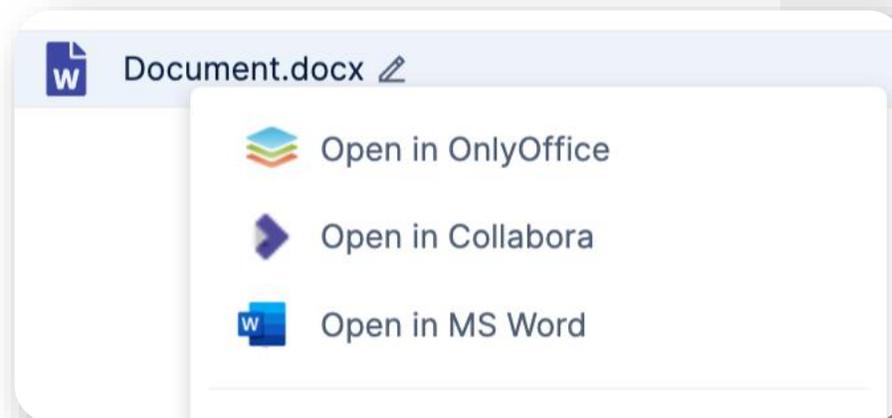
More Highlights

to simplify how you work

Web Office

Open Documents in

- Only Office
- Collabora
- Office 365



Share with people ?

Search

MSC Marie Skłodowska Ci

Can view ▾

Set expiration date ▾

Share



Can view

View, download and share.



Can edit

View, download, upload, edit, add, delete and share.



Custom permissions

Set custom permissions

Share via link ?

Link

No link

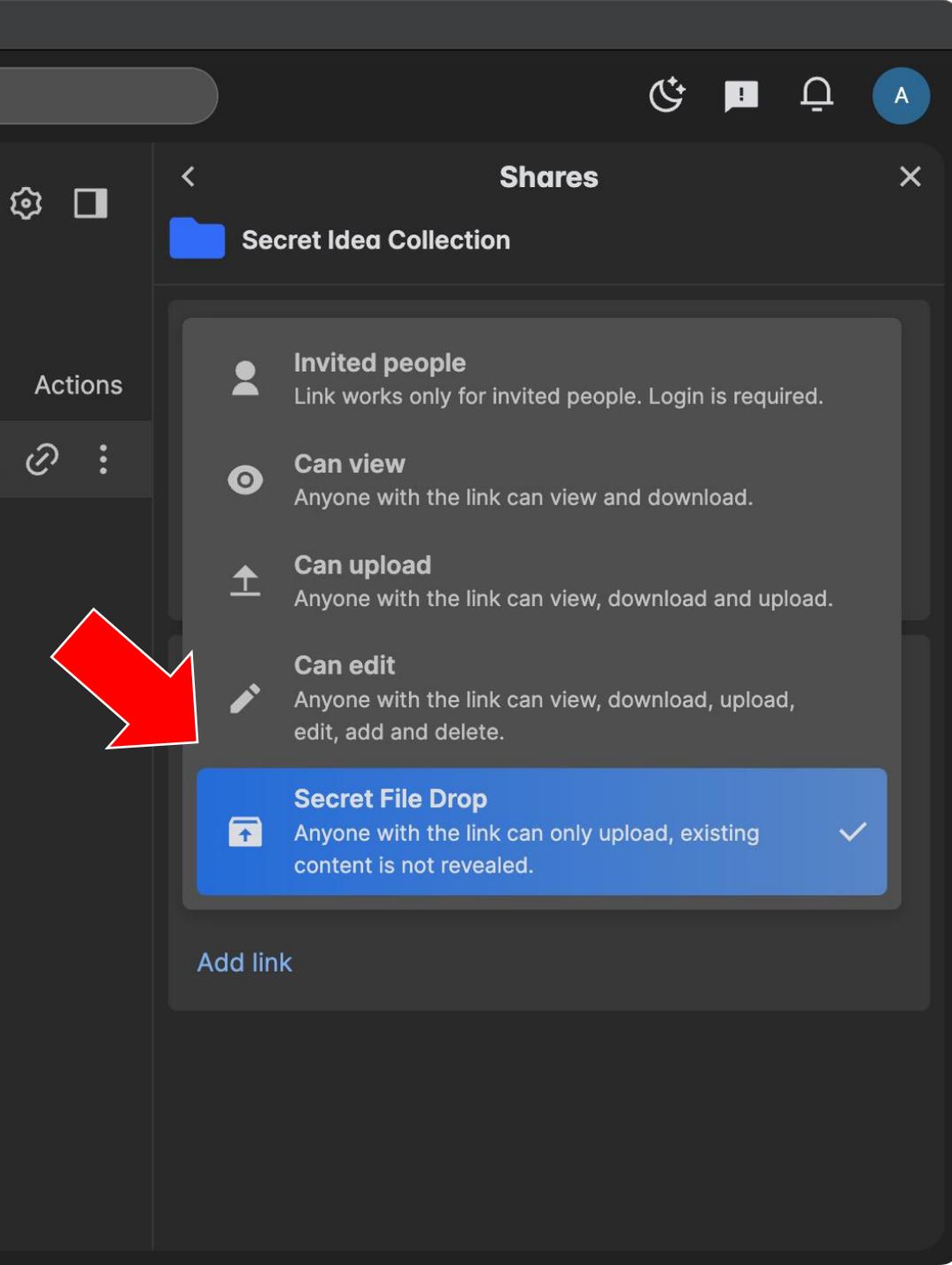
Create link

Add link

Sharing Roles

Increases security with sharing roles

- Simply select
 - Can view or
 - Can edit
- No need to pick single, fine-grained permissions view, download, upload, edit, add, delete, share
- Prevents human error by design and avoids data loss
- Ease of use for users
- Setting custom permissions is still possible



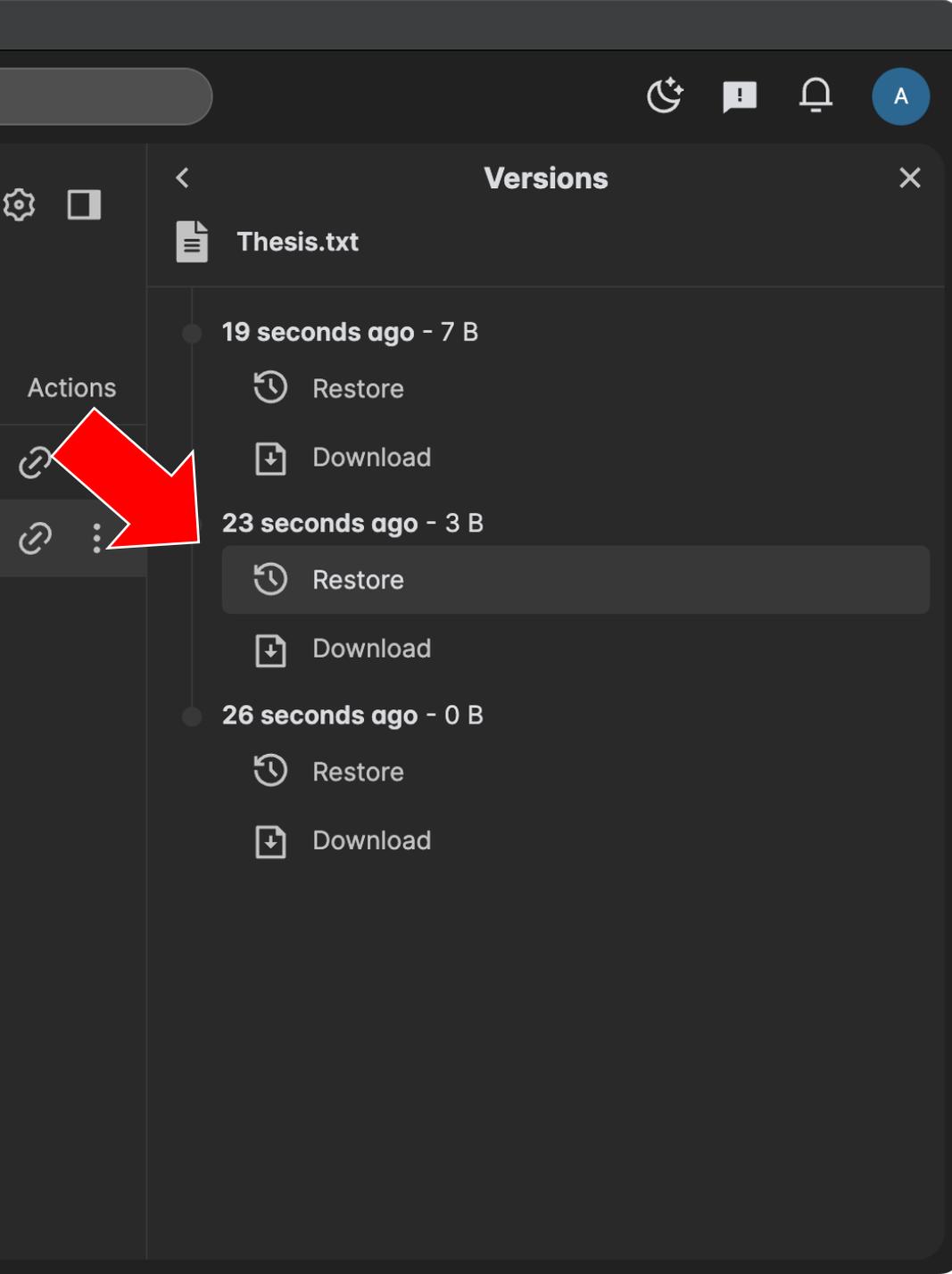
Secret File Drop

Collect files via link

- Anonymous & secret
- Existing content is not revealed
- Simple: No login required

Examples:

Collect homework, documents, photos



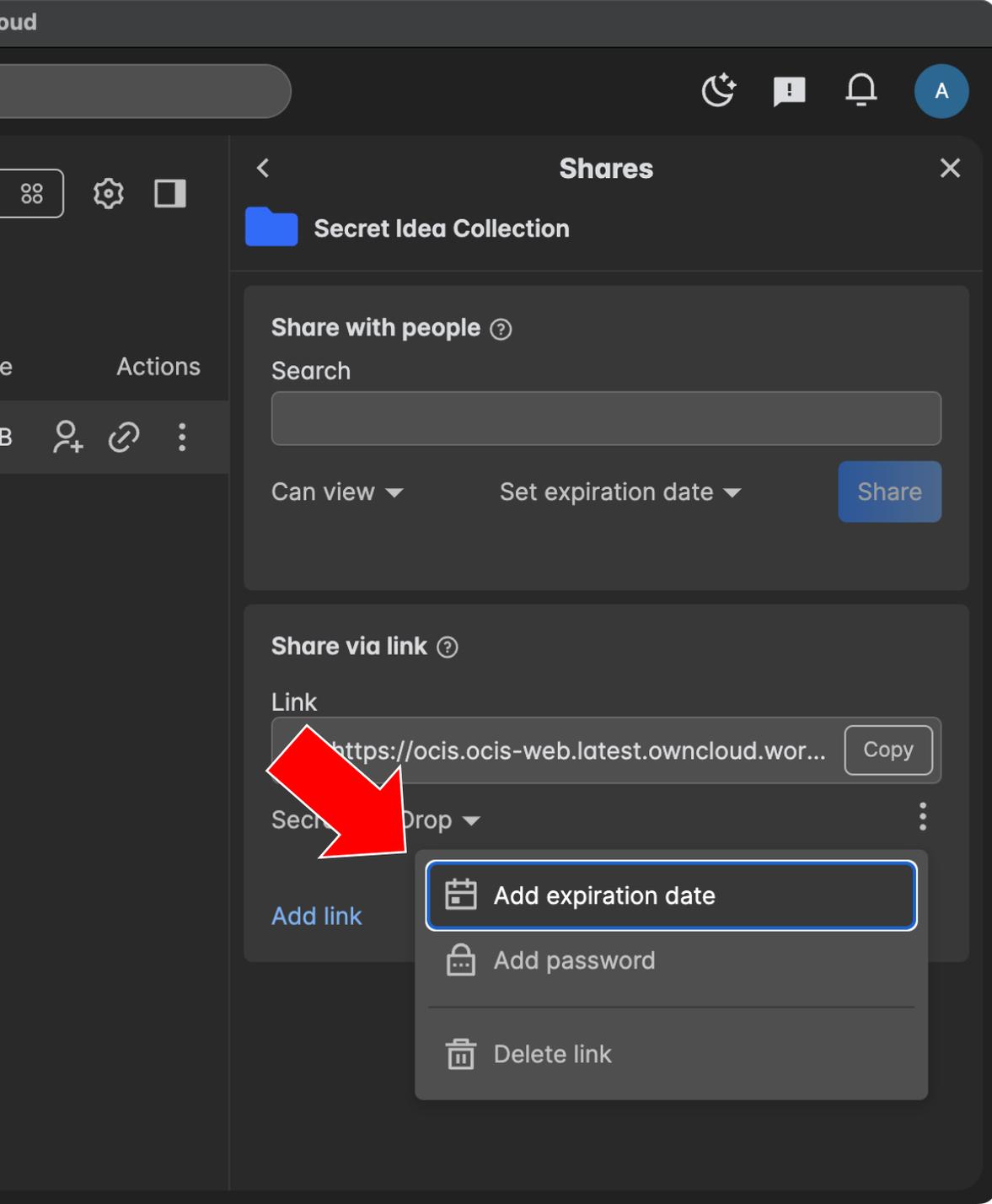
Editing without concerns

File version history - we got your back

- Track file versions
- Restore any version
- Easily recover from errors

Trash bin

- Restore deleted files from trash bin
- Empty trash bin after 30 days



Powerful sharing links

Sharing links

- Set a password
- Set an expiration date
- Create **many** links for a single file
- Revoke access at any time

Tags:"nobelprize" x

⚙️ 📄

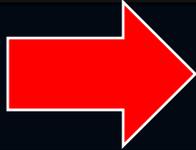
	Shares	Size	Tags	Modified	Actions
periment ↗		0 B	 nobelp...	1 minute ago	⋮
rts periment ↗		0 B	 nobelp...	1 minute ago	⋮
.txt ↗ orts		0 B	 nobelp...  idea + 1	1 minute ago	⋮

3 items in total (1 file, 2 folders)

Tags

Stay organized

- Set Tags on files and folders
- Find and organize items independent of folder structure or filenames



Search bar containing: Content:"Lightspeed"

Files Show 1 result

- Alberts Idea.txt
- Personal

Personal > My Folder

+ New Upload

<input type="checkbox"/>	Name ↓	Shares	Size	Tags
<input type="checkbox"/>	Space.jpg		1.1 MB	

1 item with 1.1 MB in total (1 file, 0 folders)

Fulltext search

Search the content of files within seconds

(Supported formats: PDF, DOCX, XLSX, PPTX, ODF, HTML, XML, EPUB, RTF, Tar, RAR, AR, CPIO, Zip, 7Zip, Gzip, BZip2 and many more ...)

Get started without the need for training

Use familiar concepts you already know from your Windows or Mac file explorer.

- Drag and drop

- Shortcuts

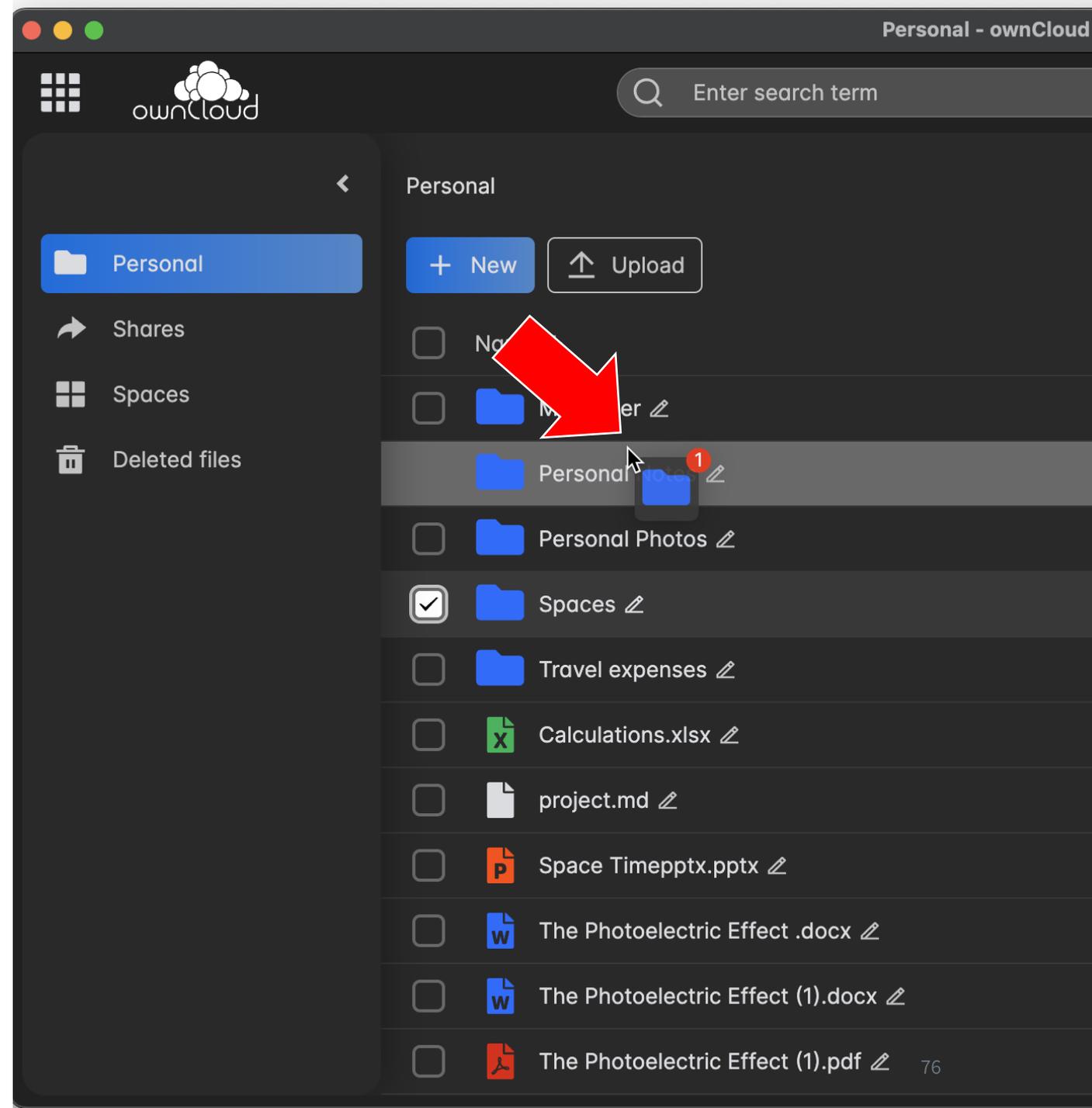
ctrl + c

ctrl + x

ctrl + v

- Right-click context menu

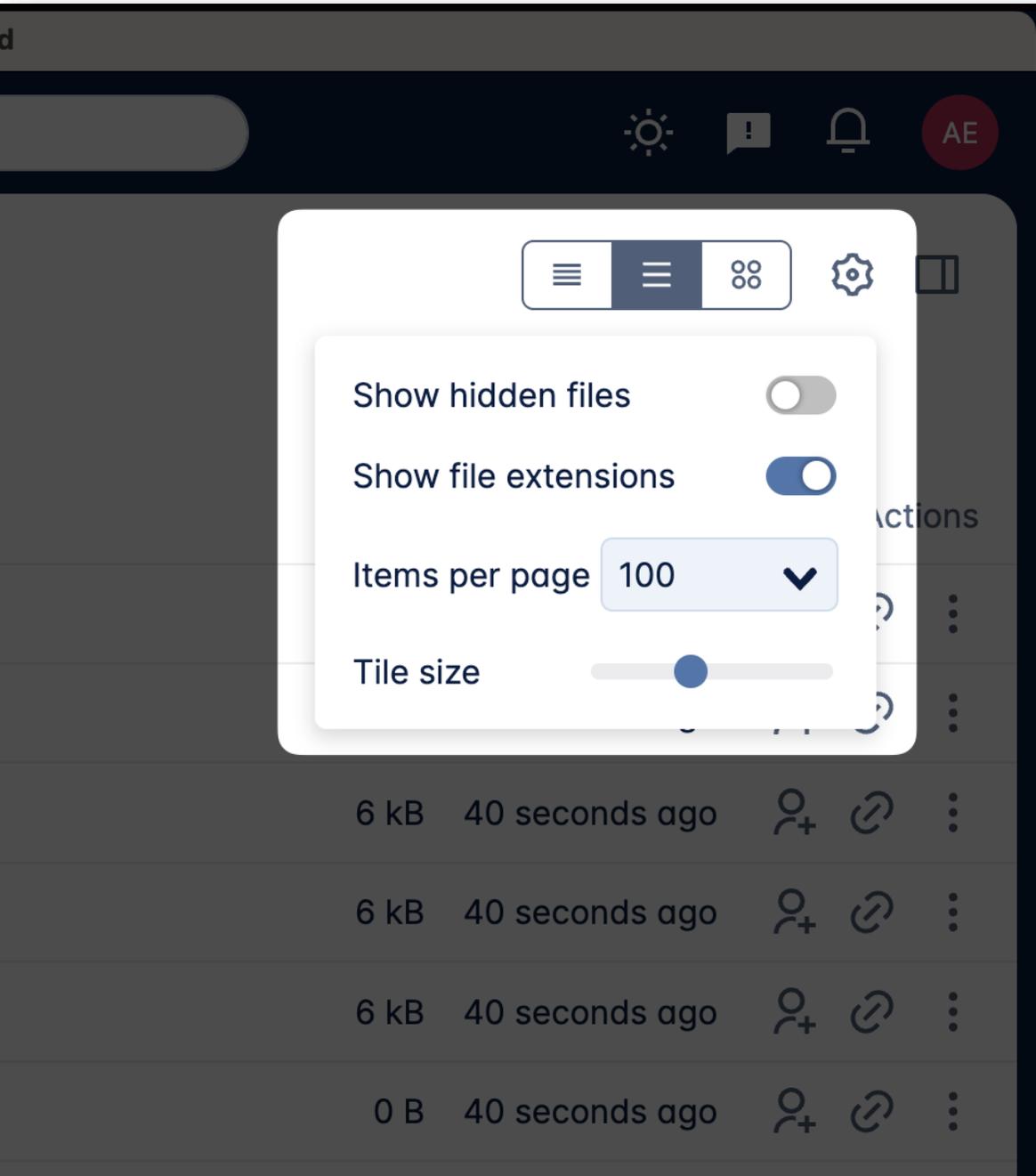
- And many more...



View modes

Individual views that adapt to your needs

- Dark / light mode
- Compact view
- Regular view
- Tiles view
with adjustable tile sizes





Personal > Personal Photos



Personal

- Shares
- Spaces
- Deleted files

+ New Upload

<input type="checkbox"/>	Name ↓	Shares	Size	Tags	Modified	Actions
<input type="checkbox"/>	0270_2016-10-20_11.42.jpg		44 kB		6 hours ago	
<input type="checkbox"/>	0272_2016-10-20_11.42.jpg		93 kB		6 hours ago	
<input type="checkbox"/>	0297_2016-10-20_12.43.jpg		79 kB		6 hours ago	
<input type="checkbox"/>	0366_2016-10-22_09.03.jpg		77 kB		6 hours ago	
<input type="checkbox"/>	0375_2016-10-22_09.04.jpg		98 kB		6 hours ago	
<input type="checkbox"/>	0504_2016-10-25_17.24.jpg		55 kB		6 hours ago	
<input type="checkbox"/>	0506_2016-10-25_17.25.jpg		61 kB		6 hours ago	
<input type="checkbox"/>	0691_2016-10-30_10.14.jpg		76 kB		6 hours ago	
<input type="checkbox"/>	0734_2016-10-30_10.43.jpg		82 kB		6 hours ago	
<input type="checkbox"/>	0922_2016-11-02_10.24.jpg		152 kB		6 hours ago	
<input type="checkbox"/>	1169_2016-11-11_12.16.jpg		44 kB		6 hours ago	
<input type="checkbox"/>	1202_2016-11-11_13.25.jpg		37 kB		6 hours ago	
<input type="checkbox"/>	2008_09_01_05_28_56_DSC_6032.jpg		28 kB		6 hours ago	

- Personal
- Shares
- Spaces
- Deleted files

Personal > Personal Photos

View toggles: List, Grid, Compare, Settings, Fullscreen

+ New Upload

<input type="checkbox"/>	Name ↓	Shares	Size	Tags	Modified	Actions
<input type="checkbox"/>	 0270_2016-10-20_11.42.jpg 🔗		44 kB		6 hours ago	  
<input type="checkbox"/>	 0272_2016-10-20_11.42.jpg 🔗		93 kB		6 hours ago	  
<input type="checkbox"/>	 0297_2016-10-20_12.43.jpg 🔗		79 kB		6 hours ago	  
<input type="checkbox"/>	 0366_2016-10-22_09.03.jpg 🔗		77 kB		6 hours ago	  
<input type="checkbox"/>	 0375_2016-10-22_09.04.jpg 🔗		98 kB		6 hours ago	  
<input type="checkbox"/>	 0504_2016-10-25_17.24.jpg 🔗		55 kB		6 hours ago	  
<input type="checkbox"/>	 0506_2016-10-25_17.25.jpg 🔗		61 kB		6 hours ago	  
<input type="checkbox"/>	 0691_2016-10-30_10.14.jpg 🔗		76 kB		6 hours ago	  
<input type="checkbox"/>	 0734_2016-10-30_10.43.jpg 🔗		82 kB		6 hours ago	  
<input type="checkbox"/>	 0922_2016-11-02_10.24.jpg 🔗		152 kB		6 hours ago	  
<input type="checkbox"/>	 1169_2016-11-11_12.16.jpg 🔗		44 kB		6 hours ago	  
<input type="checkbox"/>	1202_2016-11-11_13.25.jpg 🔗		37 kB		6 hours ago	  
<input type="checkbox"/>	2008_09_01_05_28_56_DSC_6032.jpg 🔗		28 kB		6 hours ago	  

Personal > Personal Photos

- Personal
- Shares
- Spaces
- Deleted files

<input type="checkbox"/>	Name ↓	Shares	Size	Tags	Modified	Actions
<input type="checkbox"/>	0216_2016-10-19_17.38.jpg		78 kB		6 hours ago	
<input type="checkbox"/>	0249_2016-10-20_10.44.jpg		68 kB		6 hours ago	
<input type="checkbox"/>	0270_2016-10-20_11.42.jpg		44 kB		6 hours ago	
<input type="checkbox"/>	0272_2016-10-20_11.42.jpg		93 kB		6 hours ago	
<input type="checkbox"/>	0297_2016-10-20_12.43.jpg		79 kB		6 hours ago	
<input type="checkbox"/>	0366_2016-10-22_09.03.jpg		77 kB		6 hours ago	
<input type="checkbox"/>	0375_2016-10-22_09.04.jpg		98 kB		6 hours ago	
<input type="checkbox"/>	0504_2016-10-25_17.24.jpg		55 kB		6 hours ago	
<input type="checkbox"/>	0506_2016-10-25_17.25.jpg		61 kB		6 hours ago	
<input type="checkbox"/>	0691_2016-10-30_10.14.jpg		76 kB		6 hours ago	
<input type="checkbox"/>	0734_2016-10-30_10.43.jpg		82 kB		6 hours ago	



Enter search term



AE



Personal > Personal Photos



Personal

+ New

Upload

Shares

Spaces

Deleted files



0375_201... .jpg



0504_201... .jpg



0506_201... .jpg



0691_201... .jpg



0734_201... .jpg



0922_201... .jpg



1169_2016... .jpg



1202_201... .jpg



2008_09... .jpg



2008_09... .jpg



2008_09... .jpg



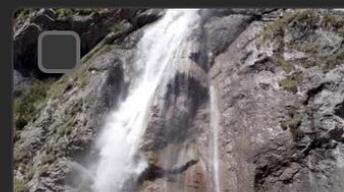
2008_09... .jpg



2008.09.1... .jpg



2013-05... .jpg



2014-05-1... .jpg





Enter search term



AE



Personal > Personal Photos



+ New

Upload

Sort by: A-Z



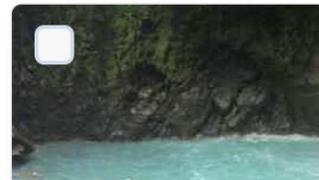
0070_201... .jpg



0100_201... .jpg



0216_2016... .jpg



0249_201... .jpg



0504_201... .jpg



0506_201... .jpg



0691_201... .jpg



0734_201... .jpg



0922_201... .jpg



1169_2016... .jpg



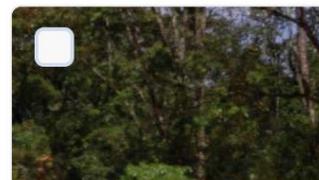
1202_201... .jpg



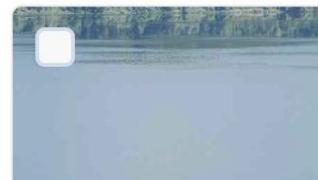
2008_09... .jpg



2008_09... .jpg



2008_09... .jpg



2008_09... .jpg





Enter search term



AE



Personal > Personal Photos

+ New

Upload

Sort by: A-Z

Personal

Shares

Spaces

Deleted files



Show hidden files

Show file extensions

Items per page 100

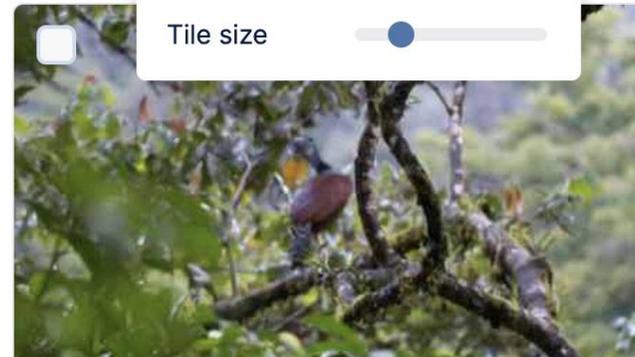
Tile size



0070_2016-10-18_13.30.jpg



0100_2016-10-18_14.02.jpg



0216_2016-10-19_17.38.jpg



0249_2016-10-20_10.44.jpg



0504_2016-10-25_17.24.jpg



0506_2016-10-25_17.25.jpg



Personal > Personal Photos

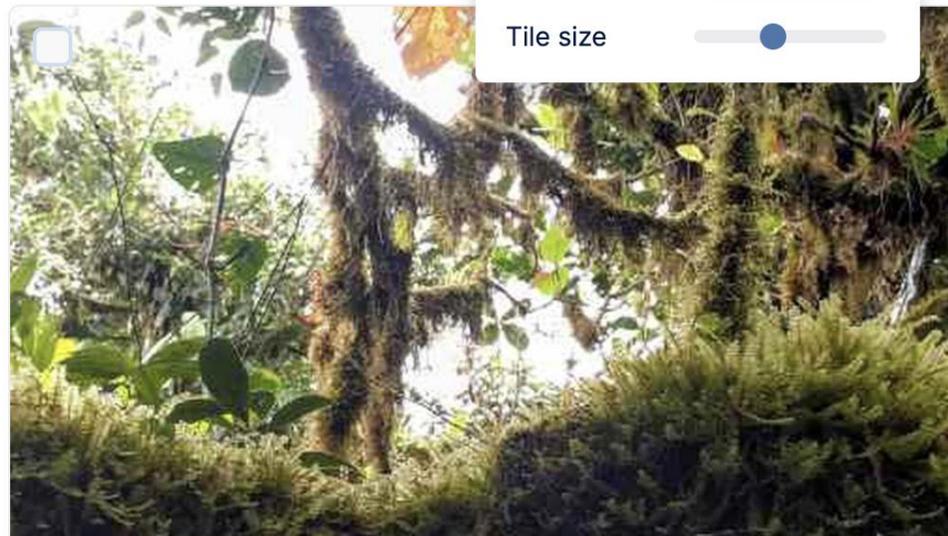
+ New Upload

Sort by: A-Z

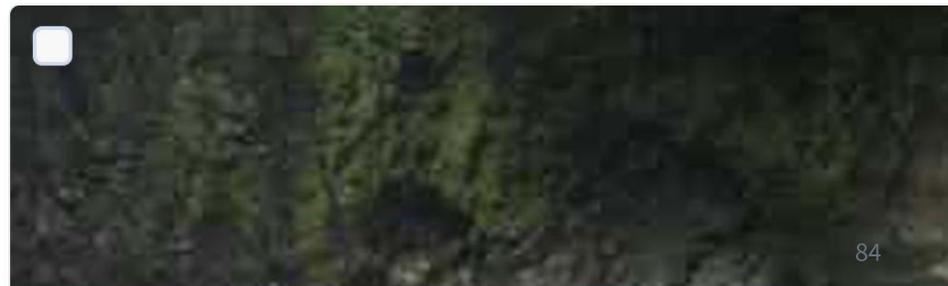
- Show hidden files
- Show file extensions
- Items per page 100
- Tile size



0070_2016-10-18_13.30.jpg



0100_2016-10-18_14.02.jpg

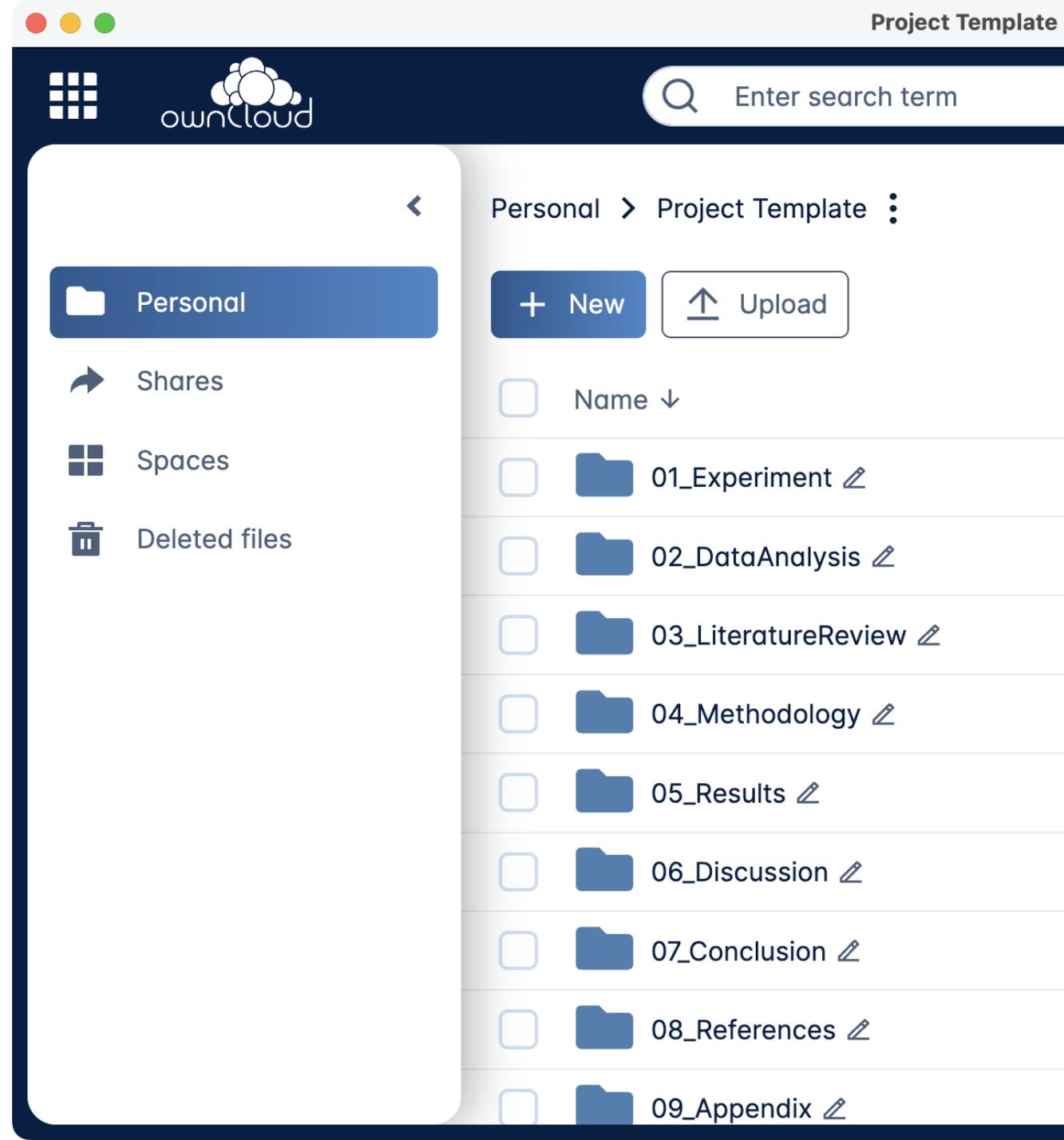


Space Templates

Bonus

Space Templates

Say bye bye to chaotic folder structures
and create unified folders in seconds!



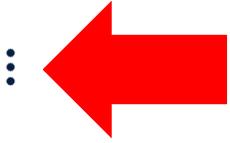


Enter search term



- Personal
- Shares
- Spaces
- Deleted files

Personal > Project Template



+ New Upload

<input type="checkbox"/>	Name ↓	Size	Modified	Actions
<input type="checkbox"/>	01_Experiment	6 kB	2 days ago	
<input type="checkbox"/>	02_DataAnalysis	0 B	2 days ago	
<input type="checkbox"/>	03_LiteratureReview	6 kB	2 days ago	
<input type="checkbox"/>	04_Methodology	6 kB	2 days ago	
<input type="checkbox"/>	05_Results	6 kB	2 days ago	
<input type="checkbox"/>	06_Discussion	0 B	2 days ago	
<input type="checkbox"/>	07_Conclusion	0 B	2 days ago	
<input type="checkbox"/>	08_References	0 B	2 days ago	
<input type="checkbox"/>	09_Appendix	0 B	2 days ago	

- Personal
- Shares
- Spaces
- Deleted files

Personal > Project Template

+ New Upload

<input type="checkbox"/>	Name ↓
<input type="checkbox"/>	01_Experiment
<input type="checkbox"/>	02_DataAnalysis
<input type="checkbox"/>	03_LiteratureReview
<input type="checkbox"/>	04_Methodology
<input type="checkbox"/>	05_Results
<input type="checkbox"/>	06_Discussion
<input type="checkbox"/>	07_Conclusion
<input type="checkbox"/>	08_References
<input type="checkbox"/>	09_Appendix

- Share
- Copy link
- Download
- Delete
- Cut ⌘ + X
- Copy ⌘ + C
- Rename
- Create Space from selection**
- Add or edit tags
- Details

	Size	Modified	Actions
01_Experiment	6 kB	2 days ago	Share Copy Link More
02_DataAnalysis	0 B	2 days ago	Share Copy Link More
03_LiteratureReview	6 kB	2 days ago	Share Copy Link More
04_Methodology	6 kB	2 days ago	Share Copy Link More
05_Results	6 kB	2 days ago	Share Copy Link More
06_Discussion	0 B	2 days ago	Share Copy Link More
07_Conclusion	0 B	2 days ago	Share Copy Link More
08_References	0 B	2 days ago	Share Copy Link More
09_Appendix	0 B	2 days ago	Share Copy Link More





Enter search term



AE



Personal > Project Template ⋮



+ New

Upload

Create Space from "Project Template"

Create Space with the content of "Project Template".

The marked elements will be copied. [?](#)

Space name

Cancel

Create

	Size	Modified	Actions		
<input type="checkbox"/>	6 kB	2 days ago			
<input type="checkbox"/>	0 B	2 days ago			
<input type="checkbox"/>	6 kB	2 days ago			
<input type="checkbox"/>	6 kB	2 days ago			
<input type="checkbox"/>	6 kB	2 days ago			
<input type="checkbox"/>	0 B	2 days ago			
<input type="checkbox"/>	0 B	2 days ago			
<input type="checkbox"/>	0 B	2 days ago			
<input type="checkbox"/>	0 B	2 days ago			

Name

Folder

Folder

Folder

Folder

Folder

Folder

06_Discussion

Folder

07_Conclusion

Folder

08_References

Folder

09_Appendix

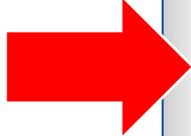
- Personal
- Shares
- Spaces**
- Deleted files

Spaces

+ New Space

Sort by: A-Z

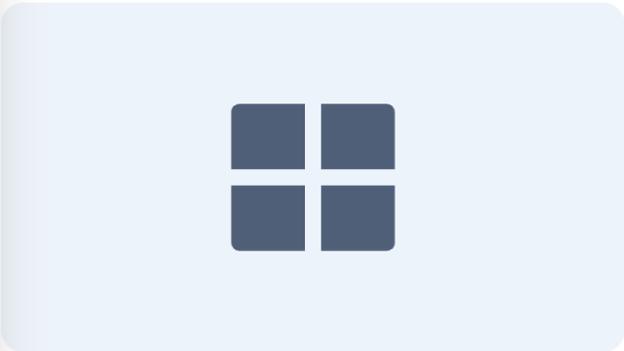
Project Moon...



- Personal
- Shares
- Spaces**
- Deleted files

Spaces > Project Moonshot

[+ New](#) [Upload](#)

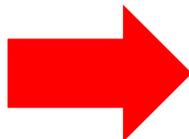


Project Moonshot

1 member

Here you can add a description for this Space.

<input type="checkbox"/>	Name ↓	Size	Modified	Actions
<input type="checkbox"/>	01_Experiment ↗	6 kB	17 seconds ago	
<input type="checkbox"/>	02_DataAnalysis ↗	0 B	17 seconds ago	
<input type="checkbox"/>	03_LiteratureReview ↗	6 kB	17 seconds ago	
<input type="checkbox"/>	04_Methodology ↗	6 kB	17 seconds ago	



Security and Compliance

for CISOs and Compliance Managers

Security and Compliance



Digital Sovereignty

Open and transparent



100% Control

Your data under your control



File Firewall

Block unwanted interactions



GDPR

Regulative Compliance



Spaces

Data owned by the organization, not individuals



Antivirus

Prevent malicious activities



Accessibility

Compliant with WCAG 2.1 AA / BITV 2.0



Non Discriminatory Language

Gender neutral & inclusive language



Audit Log

Keep track of all activities

Summary

Infinite Scale 3.0

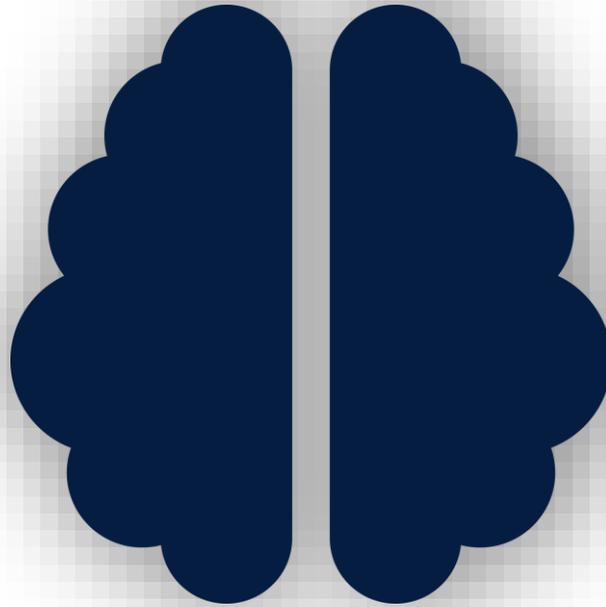
-  **Secure & Compliant**
-  **Cloud Native**
-  **Cost Effective**
-  **User Friendly**

Thank you for your attention!



Splitbrain Problem

One can not live without the other

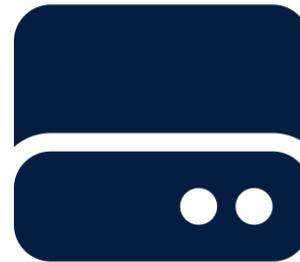


Splitbrain Problem

One can not live without the other



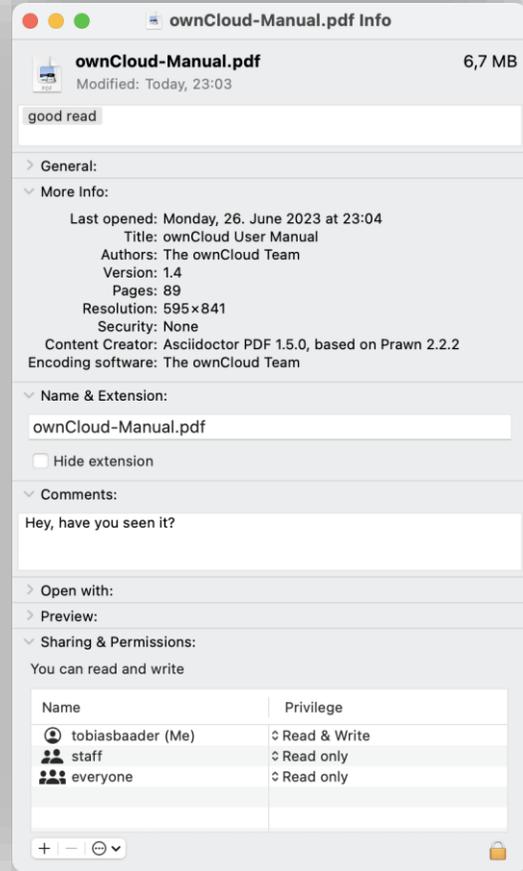
Database
(Metadata)



Storage
(file blob)

Splitbrain Problem

One can not live without the other



Database
(Metadata)



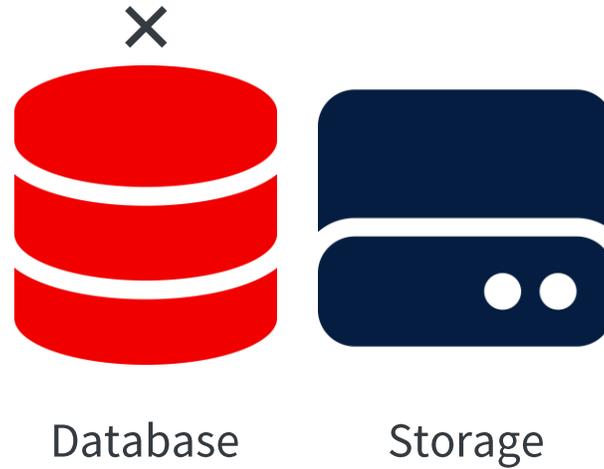
Storage
(file blob)



ownCloud-Manual.pdf

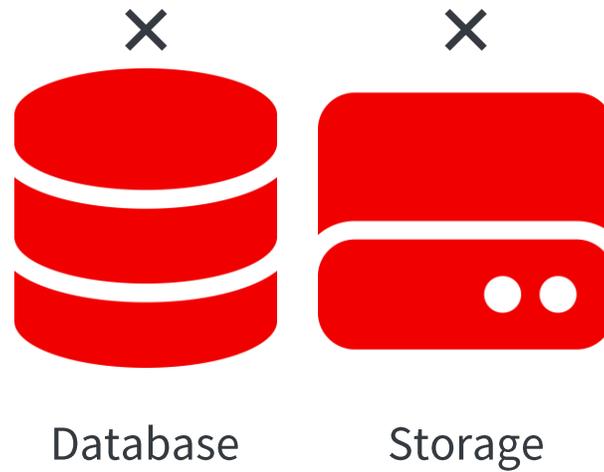
Splitbrain Problem

One can not live without the other

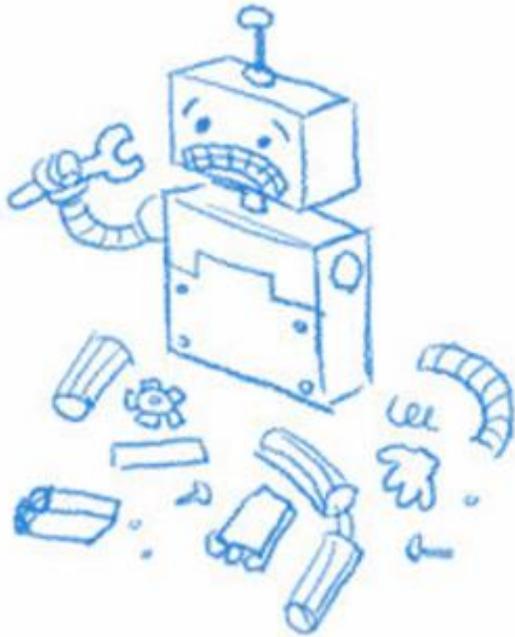


Splitbrain Problem

One can not live without the other

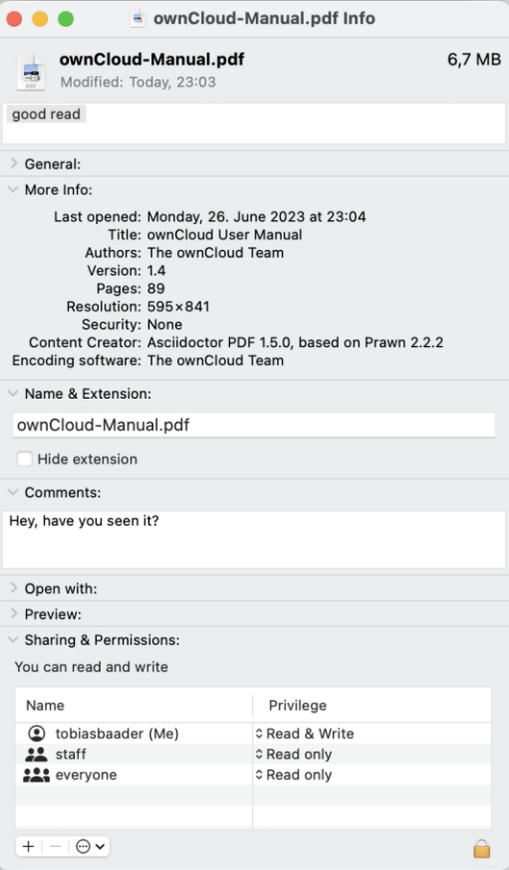


Server Error



Splitbrain Problem

One can not live without the other



Database
(Metadata)



Storage
(file blob)



ownCloud-Manual.pdf

Splitbrain Problem

One can not live without the other



Database
(Metadata)



Storage
(file blob)



Splitbrain Problem

```
tobiasbaader@Tobiass-MacBook-Pro:~/myFolder
→ myFolder tree
.
├── ownCloud-Manual.mpk
└── ownCloud-Manual.pdf

1 directory, 2 files
→ myFolder
```

Splitbrain

Filecache and storage diverge -> bigger storage, bigger filecache

Size of filecache is a problem; db is always hard to scale

Galera cluster, master slave setup, write in db needs locking.

FAQ drafts

****1. What is an Enterprise File Sync and Share (EFSS) solution?***

An Enterprise File Sync and Share (EFSS) solution is a software service that allows organizations to save, synchronize, and share files securely among employees, partners, and clients. This includes files such as documents, photos, videos, and more. The solution is often cloud-based but can also be on-premises and is designed to meet the requirements of businesses, specifically in terms of security and compliance.

****2. How does EFSS improve collaboration in a team?***

EFSS allows team members to share files and folders securely and in real-time, enhancing collaboration. Team members can access, edit, and update files simultaneously from anywhere, any device, improving productivity and speeding up project completion.

****3. How secure is our data with an EFSS solution?***

EFSS solutions are designed with enterprise-level security features including data encryption, multi-factor authentication, and audit trails. They also offer compliance with data privacy standards such as GDPR, HIPAA, etc. The level of security, however, can vary depending on the provider.

****4. Can I access my files offline?***