

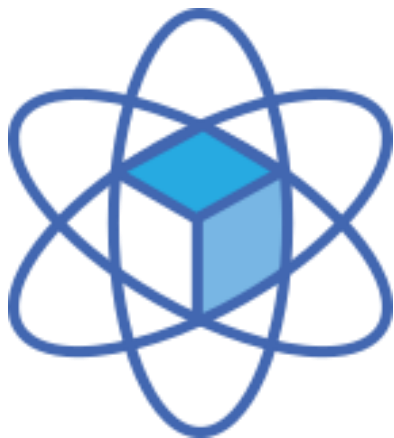


# **Indico + CERNBox: CERN services working together**

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# CERNBox



The screenshot shows the CERNBox web interface. At the top, there is a search bar with the text "Enter search term" and a user profile icon labeled "JF". The breadcrumb navigation shows the path: CERNBox > eos > user > j > laferre. Below the breadcrumb, there are buttons for "+ New" and "Upload". A table lists the contents of the directory:

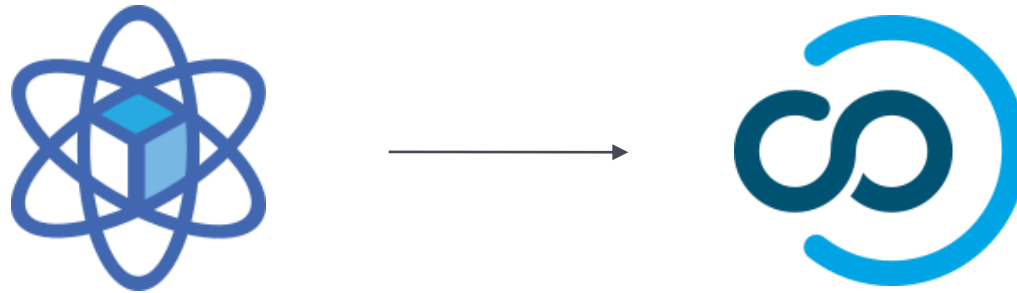
<input type="checkbox"/>	Name ↓	Shares	Size	Modified	Actions
<input type="checkbox"/>	confs		52.8 MB	5 days ago	⋮
<input type="checkbox"/>	conversion-services...		151.2 MB	2 months ago	⋮
<input type="checkbox"/>	gsoc-2023		30.7 MB	1 hour ago	⋮
<input type="checkbox"/>	slides		312.2 MB	4 days ago	⋮
<input type="checkbox"/>	summer-student-2023		92 kB	7 days ago	⋮
<input type="checkbox"/>	test		101.4 MB	25 days ago	⋮
<input type="checkbox"/>	indicato.jpg		197 kB	11 months ago	⋮

At the bottom of the table, it says "8 items with 648.6 MB in total (2 files, 6 folders)". On the left side, there is a sidebar with navigation options: "All files", "Favorites", "Shares", "Projects", "Deleted files", and "HPC Data".

# Vision



# Vision



# Problems

- **Application-specific solutions** are not reusable and hard to integrate with multiple EFSS services
- **EFSS service** differences make it difficult for a one-size-fits-all solution

# Solution

- **CERNBox File-picker** is a standalone implementation which bridges the integration between a cloud storage provider and an app.
- At the moment it uses **WebDAV**, so it is compatible with any ownCloud version.
- Eventually it would use [CS3 APIs](#), so the compatibility list would expand to any of the mesh storage services.




# Features

- Easily integrate **EFSS** providers into any **web application**
- Covers different **use cases**
  - File fetching / linking
  - File upload
- Provides **authentication** and **user interface**, leaving only the handling of the files to the target application

# Features

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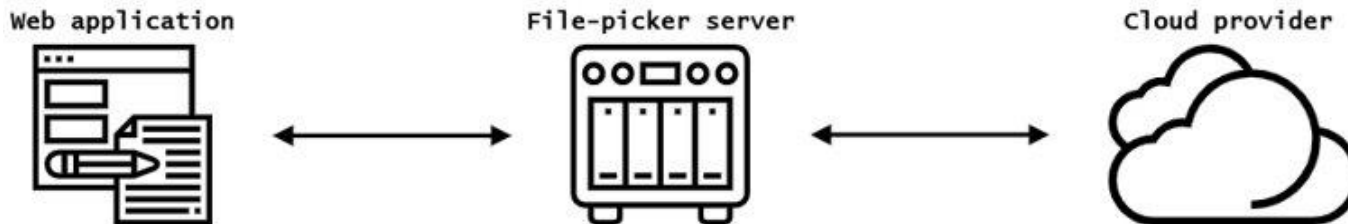


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Naturwissenschaften  
output!!!



# How does it work?

- First version uses a **wrapper** around a modified **ownCloud File-picker**
- It is embedded via **iframe** in the application and talks to the cloud storage provider
- Handles authentication with **OIDC** or **OAUTH2**
- Uses **postMessage** to send file links to parent



# Uses

- **Indico 3.2 at CERN**, to attach materials into events and categories
- **CodiMD**
- **Invenio** integration in progress
- Other **CERN services** are being evaluated
- Other partners of the **CS3MESH4EOSC** consortium

# We even have docs!

somehow without copying them. The duration of the links can be adjusted with the `publicLinkDuration`, in days. These public links will have the `internal` flag set (so they are not visible in ownCloud web), and can be given a description via the `description` parameter.

**i** Keep in mind, if the owner of the file deletes or moves it, the public link will stop being valid. This is especially important if you plan to have long-term access to the files.

## Location selector

This mode allows users to select a path inside their storage for the parent application to upload files into it.

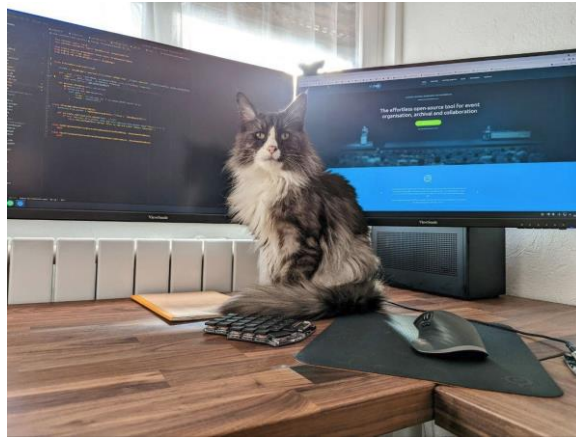
The File-picker will provide the parent application with authentication details along with the selected path.

## Query parameters

The File-picker accepts the following parameters through the query string:

Name	Description	Values	Default	Required	Example
origin	URL of the iframe parent	string		Yes	https://indico.cern
locationPicker	Show the location picker	bool	false	No	1

# Flow





Icons: [Hard Drive](#), [clouds](#), [atom](#), [server](#), [app](#), by Eucalyp from NounProject.com

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