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CERNBox : sync, share and science

Thursday 3 November 2022 11:40 (25 minutes)

CERNBox aims to bring the ease of a file sync and share service to scientific data processing at CERN. It provides a simple and uniform way to access over 15PB of research, administrative and engineering data across more than 2 billion files.

In this contribution we report on our experience and the challenges of taking an upstream sync and share service (ownCloud) and integrating it into CERN's scientific services and workflows.

The result is a highly capable platform which allows access to scientific data through numerous protocols, applications (e.g. SWAN) and large-scale processing farms (e.g. lxbatch).

We report on recent evolution including privacy enhancements, prototype integrations with Rucio and CERN's HPC system, evolving the existing integration with FTS for CMS's Asynchronous Stage Out and exposure of CERN's ATLAS group disk via CERNBox web.

We close with some observations on future work including synergies with other HEP sites and the federation potential of the system.

Desired slot length

Speaker release

Yes

Presentation will be held...

in the conference venue

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