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CERNBox: Community Distribution for Analysis Facilities

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CERNBox is an innovative scientific collaboration platform, built using solely open-source components to meet the unique requirements of scientific workflows. Used at CERN for the last decade, the service satisfies the 35K users at CERN and seamlessly integrates with batch farms and Jupyter-based services.

Following the presentations given at the CS3 Workshop 2024[1] and CERN Storage Day[2], as well as the BoF session at the WLCG-HSF Workshop 2023[3], there has been a surge in interest from Tier 1 and Tier 2 Data Centres and other scientific institutions, all eager to deploy CERNBox within their own ecosystems. In this talk, we'll delve into the core technology that powers CERNBox —Reva—and demonstrate how you can install your own CERNBox system with either EOS or CephFS as the storage backend. We conclude with remarks on the role of sync and share systems such as CERNBox in the Analysis Facilities landscape.

[1] <https://indico.cern.ch/event/1332413/contributions/5740225/>

[2] <https://indico.cern.ch/event/1353101/contributions/5805537/>

[3] <https://indico.cern.ch/event/1230126/sessions/492063/#20230506>

Desired slot length

Speaker release

Yes

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