

The dCache scientific storage cloud

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For over a decade, the dCache team has provided software for handling big data for a diverse community of scientists. The team has also amassed a wealth of operational experience from using this software in production.

With this experience, the team have refined dCache with the goal of providing a “scientific cloud”: a storage solution that satisfies all requirements of a user community by exposing different facets of dCache with which users interact.

Recent development, as part of this “scientific cloud” vision, has introduced a new facet: a sync-and-share service, often referred to as “dropbox-like storage”. This work has been strongly focused on local requirements, but will be made available in future releases of dCache allowing others to adopt dCache solutions.

In this presentation we will outline the current status of the work: both the successes and limitations, and the direction and time-scale of future work.

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