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Converge heterogeneous legacy filesystems at the Pawsey Supercomputing Centre

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The Pawsey Supercomputing Centre is an unincorporated joint venture to support Australian researchers, funded by the four major universities in Western Australia, local government, and the CSIRO. The centre works with many different types of filesystems such as Lustre, GPFS, NFS, Mediaflux and Ceph, that for legacy reasons do not talk very well with each other. Recent trends in research are leading us toward a more seamless integration between computing resources and storage. Researchers need solutions that work out of the box, so they can spend their time purely focusing on their research and not with IT problems. Pawsey Sync is the new pilot sync and share service at Pawsey that aims to solve these issues, to empower researchers with a seamless integration between storage systems and allow heterogeneous workflows between HPC, cloud, and data sharing. Pawsey Sync will also allow a smoother data migration to future and more converged filesystems that will come with the 2019-2022 capital refresh funding.

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