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Ceph object storage at RAL

Wednesday 14 October 2015 16:30 (20 minutes)

RAL is currently developing storage services powered by a Ceph object storage system. We review the test results and experiences of the newly-installed 5 PB cluster at RAL, as well as our plans for it. Since the aim is to provide large scale storage for experimental data with minimal space overhead, we focus on testing a variety of erasure coding techniques and schemes. We look at functionality and performance testing of XrootD and GridFTP servers that have been adapted to use a Ceph backend, as well as, RADOS gateways providing an S3-compatible interface. We also look at the effects of erasure coding on the stability and resiliency of a highly distributed system at this scale.

Length of presentation (max. 20 minutes)

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