



Contribution ID: 26

Type: **Presentation**

Ceph: A scalable, organic option for Storage-as-a-Service at CERN

Friday, April 19, 2013 9:25 AM (25 minutes)

Recent storage requirements, such as the demand for VM block storage in the Agile Infrastructure project or the need for a scalable, reliable backend for file services such as AFS and NFS, motivate a generic consolidated storage system for CERN IT. With its native file, block, and object interfaces the open-source system Ceph is an attractive vendor-independent candidate to fill this gap. In this presentation, we will introduce Ceph, discuss how it could fit the storage use cases at CERN, and report on the first results of our prototype investigation.

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Session Classification: Storage and filesystems

Track Classification: Storage & Filesystems