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Building an organic block storage service at CERN with Ceph

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This is a report on CERN IT's 3 PetaByte Ceph pre-production cluster set up in the past couple of months which will initially serve as a storage backend for OpenStack images and volumes (backends for AFS or NFS servers are options we will explore as well). In addition to a discussion of the architecture and configuration of the cluster, we will present results of our functionality tests, some performance numbers as well as best practices learned.

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