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Evaluating the Performance of Seagate Kinetic Drive Technology and its Integration into the CERN EOS Storage System [1]

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The big amount of data produced by CERN experiments at the Large Hadron Collider (LHC) needs to be efficently stored and analyzed. Because of the constant increasing data volume the essential function at CERN is archiving the vast quantities of data. The Data and Storage Service Group in the IT department at CERN is operating and evaluating different cloud storage technologies to ensure that all incoming data from experiments can be stored reliably in a cost effective way. One of the main storage systems used and developed at CERN is EOS [1], a multi- petabyte disk storage. A recent R&D project aims to integrate the Seagate Kinetic drive technology [2] as a promising storage solution for the future. Seagate Kinetic offsers ethernet enabled disk drives with an object storage API. The main goal of this project is a performance evaluation of Seagate Kinetic drive technology and its integration into the CERN EOS storage system.

Report on ZENODO:
Document on ZENODO [2]

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[1] http://test-static-05.web.cern.ch/publications/technical_documents/evaluating-performance-seagate-kinetic-drive-technology-and-its
[2] http://zenodo.org/record/31865