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BNLBox: A New Cloud Storage Service at the BNL SDCC

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The Brookhaven National Laboratory (BNL) is a multi-disciplinary US Department of Energy (DOE) lab, supporting a wide range of scientific research. The Scientific Data and Computing Center (SDCC) at BNL provides computational resources to the scientists and engineers engaged in this research. In order to support this wide variety of science, the SDCC supports various types of data storage services: very fast data caches; large, multi-PB distributed stores; network file systems; parallel file systems; object storage, etc. BNLBox, which is based on NextCloud software, is one of the newer storage services at BNL. It is a cloud storage service, allowing users easy access to their storage wherever they are on the network. The storage is built on top of a robust and reliable Lustre File system. The HPSS API in LustreFS is being used to provide the users with true archive storage. With redundant and backed-up services wherever possible, BNLBox provides a stable and easy-to-use storage service for all users at BNL. This presentation will describe the detailed setup and current features of the BNLBox service at BNL.

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