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SAS expanders and software RAID optimizations applied to CERN CC backup service

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In 2012, the CERN backup server infrastructure switched to HBA attached SAS expanders and software RAID. This new hardware gave us the opportunity to perform a deeper analysis of TSM disk usage and introduce newer optimizations to reach higher overall performance.

This presentation gives an overview of the backup service storage infrastructure and usage. Then it explains the different RAID and filesystem optimizations that allowed us to improve the backup infrastructure performance by 40%.

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