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Server and Storage Technologies

Our current storage system is redundant and outdated and we should implement a data deduplication system. Switching our current data storage system to a data deduplication system will save us time, money, and resources. Implementing this technology will also speed up backups and decrease the amount of storage we need which will lead to sizeable savings in the long run.

Data deduplication is the process of compressing data in a way that will eliminate redundancy, improving storage capacity. It will reduce the amount of disk space required and the total number of disks needed. Since fewer disks are needed it will allow for faster backups, replications and disaster recovery processes. This software will identify unique data and remove the redundant data, making it easier to store. With this system, we can expect a disk space reclamation of anywhere from 30-80%. This data reclamation will be returned to us and be able to use for new data.

The conventional disks that we use in our storage system today are redundant and cost us a lot of money to buy, create space on, manage, cool, and otherwise maintain. All these costs can be reduced by switching to the data deduplication software. With this software we can estimate that for every 20 terabytes it will cost $20,000, which is much lower than our current storage system costs. Because this system expects less downtime due to backups and other related issues, we will also save money in the long run.

Sources

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