

Flash Research: Data Deduplication

By using data deduplication technologies, we can save money on data storage.

According to Gartner, clients who use the technology have been able to successfully reduce their backup by 25 times. Data storage will be growing exponentially which means that it will be a cost that needs to be incurred. Data deduplication will allow us to better control our storage cost which can enhance our firm's competitiveness.

Data deduplication improves storage utilization by using a form of compression on a subfile level. It eliminates all other duplicates of data and only stores one copy which eliminates duplicate copies of repeating data. Since only unique data is stored and transmitted, data deduplication will significantly reduce the amount of disk space required and the amount of bandwidth needed. Deduplication has many benefits which include reducing the required amount of storage of a certain set of files and the number of bytes that must be transferred between endpoints. Depending on the of data, deduplication produces ratios of 10 times, 20 times, 30 times or more.

According to SNIA Green Storage Initiative, deduplication can reduce Infrastructure costs required space, power and cooling, administrative costs, and overall storage costs. Our subscription costs for industry-leading market data terminals can run anywhere from \$5,000-\$20,000 per user per year. The cost savings through data deduplication can have a ripple effect throughout the data center. On top of the savings from having less physical storage with cooling, power, and space requirements, another potential benefit is the reduction of storage over local and wide-area storage networks.

Works Cited

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2. "Data Deduplication Backup Benefits Have Businesses Leaving Tape behind." *Computerweekly.com*. N.p., Oct. 2008. Web. 12 Feb. 2014. <<http://www.computerweekly.com/report/Data-deduplication-backup-benefits-have-businesses-leaving-tape-behind>>.
3. Gartner, "Hype Cycle for Storage Technologies, 2013"