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High Tower TextCDSTORE: TOWARD RELIABLE, SECURE, AND COSTEFFICIENT CLOUD STORAGE VIA CONVERGENT DISPERSAL

ABSTRACT

We present CDStore, a unified multi-cloud storage solution for users to outsource backup data with reliability, security, and cost efficiency guarantees. CDStore builds on an augmented secret sharing scheme called convergent dispersal, which supports deduplication by using deterministic content-derived hashes as inputs to secret sharing. We present the design of CDStore, and in particular, describe how it combines convergent dispersal with two-stage deduplication to achieve both bandwidth and storage savings and also be robust against sidechannel attacks that can be launched by a malicious user on the client side. We demonstrate via cost analysis that CDStore achieves significant monetary cost savings over baseline cloud storage solutions.

EXISTING SYSTEM

Multi-cloud storage coalesces multiple public cloud storage services, operated by independent vendors, into a single storage pool. By dispersing data with some

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form of redundancy across multiple clouds, multi-cloud storage provides a plausible way to realize reliable and secure outsourced storage. By reliable, we mean that the stored data remains available even in the presence of cloud failures; by secure, we mean that the stored data is protected with the guarantees of confidentiality and integrity. Secret sharing is one form of redundancy that provides both reliability and security guarantees, and it has been realized in multi-cloud storage

DISADVANTAGES

- Plausible to reduce the redundancy of secret sharing to be slightly higher than that of erasure coding.
- Identical secrets are always transformed into identical shares, which can be deduplicated.

PROPOSED SYSTEM

CDStore is designed for an organization to outsource the storage of data of a large group of users to multiple clouds. It builds on the client-server architecture. Each user of the same organization runs a CDStore client to store and access his data in multiple clouds over the Internet. In each cloud, a colocated virtual machine (VM) instance owned by the organization runs a CDStore server between multiple CDStore clients and the storage backend. CDStore targets backup workloads, which are known to have high content

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similarity. We consider a type of backups obtained by snapshotting applications, file systems, or virtual disk images.

ADVANTAGES:

- CDStore is a multi-cloud storage system for organizations to outsource backup and archival storage to public cloud vendors, with reliability, security, and cost efficiency.
- Our cost analysis demonstrates that CDStore achieves significant cost savings via deduplication.

SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

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SOFTWARE REQUIREMENTS:

Operating System : Windows 8

Application Server : Tomcat5.0/6.X

Front End : HTML, Java, Jsp

Scripts : JavaScript.

Server side Script : Java Server Pages.

Database : Mysql 5.0

Database Connectivity : JDBC.

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