

ACCELDDEDUP

Streamline the cloud, reveal the essentials — AccelDedup makes every byte purposeful.

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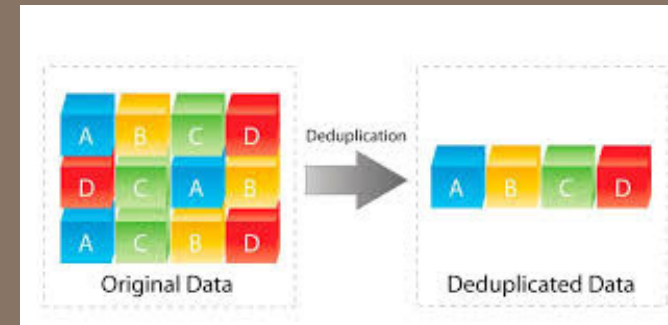
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Introduction

AccelDedup is a cloud-based solution that reduces storage costs and boosts performance by removing duplicate data in real time. Compatible with major platforms like AWS and Google Cloud, it optimizes storage by identifying and deleting redundant files, making it ideal for organizations managing large-scale data in dynamic cloud environments.

Objective

- 1.To create an interface for storing data on the cloud.
- 2.To perform de-duplication on the cloud platform.
- 3.To compare and analyze existing de-duplication techniques with the proposed solution.



APPLICATIONS

- **Cloud Storage Optimization:** Reduces redundant data in cloud environments, optimizing storage usage and cutting costs for businesses using AWS, Google Cloud, and Azure.
- **Backup and Recovery:** Speeds up data backup and recovery processes by eliminating duplicates, improving overall system efficiency.



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Methodology

- **Real-Time Data Detection:** Continuously monitors and analyzes incoming data across cloud platforms to detect duplicates at block, file, and application levels.
- **Efficient Deduplication:** Identifies and removes redundant copies of data, ensuring only unique files are stored, optimizing storage space.
- **Cross-Platform Integration:** Seamlessly integrates with AWS, Google Cloud, and Azure for efficient deduplication across multiple cloud environments.

Results/Findings

AccelDedup reduced storage consumption by eliminating duplicate data across cloud platforms, resulting in significant cost savings. It improved system performance with faster data retrieval, backup, and recovery times. The solution demonstrated scalability, efficiently handling growing data volumes and ensuring seamless cross-platform deduplication. Real-time optimization further enhanced storage efficiency, making AccelDedup an effective and cost-effective solution for cloud storage management.

