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Optimizing Data Leakage in Multi-Cloud Storage Services

Janhavi Shinde, Aniket Gaikwad, Atharva Gaikwad, Sarang Joshi, Prof. Anuradha Thorat

Department of IT Engineering

Zeal College of Engineering and Research, Narhe, Pune, Maharashtra, India

Abstract: *Users may exchange data with anybody at any time, post content to the web, and immediately access the resources they need thanks to the cloud, a revolutionary technology that has only lately gained acceptance. However, because data stored in the cloud is accessible from anywhere and on any device, and because very little evidence is left behind, this technology makes it challenging for someone to look into and find forensic evidence that may help in forensic analysis. This post created a dynamic plan to stop data leaking in the cloud environment. For the advantage of cloud service providers and cloud consumers, storage optimisation is considered throughout the de-duplication assessment of current data de- duplication approaches, practises, and implementations. The project also offers a simple method for identifying and getting rid of duplicate files by computing the digest of files using file checksum algorithms. This strategy suggests removing duplicate data, however the duplication quest shows that each user has a unique token and that privileges have been provided to them. This recommended approach is more trustworthy and uses fewer cloud resources. In comparison to traditional deduplication methods, it has also been shown that the proposed system has a minimal overhead for duplicate removal.*

Keywords*:* Data Mining, RBAC, Multi cloud data security, Proxy Key generation

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