IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 3, Issue 2, March 2023
Impact Factor: 7.301

Optimizing Data Leakage In Multi-Cloud Storage Services

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Abstract: *The cloud is a novel technology, and cloud-based storage is a recently embraced concept that enables users to share data with anybody at any time as well as upload material to the web and instantly access available resources. However because data saved on the cloud can be accessed from any location and from any device, and because very few traces are left behind, this technology makes it difficult for someone to investigate and discover forensic evidence that may aid in forensic analysis. In order to combat data leakage in the cloud environment, this article developed a dynamic strategy. Storage optimization is taken into account during the de-duplication assessment of current data de-duplication methodologies, practises, and implementations for the benefit of cloud service providers and cloud customers. By computing the digest of files using file checksum techniques, the project also suggests a quick approach for locating and eliminating duplicates. This approach recommends eliminating duplicate data, however the duplication quest indicates that the user has privileges assigned and that each user has a distinct token. This suggested method requires fewer cloud resources and is more dependable. It has also been demonstrated that the suggested scheme has a low overhead in duplicate removal when compared to conventional deduplication techniques.*

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