Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Secure De-duplication Over Cloud using Attribute Based Access Policies

ABSTRACT

The main problem of cloud storage services is the management of the ever-increasing volume of data. Different from traditional Deduplication systems, the differential privileges of users are further considered in duplicate check besides the data itself. I also present several new deduplication constructions supporting authorized duplicate check in a hybrid cloud architecture. Security analysis demonstrates that our scheme is secure in terms of the definitions specified in the proposed security model. As a proof of concept, we implement a prototype of our proposed authorized duplicate check scheme and con-duct tested experiments using our prototype. We show that our proposed authorized duplicate check scheme incurs minimal overhead compared to normal operations.

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