Abstract

Data de-duplication is a developing and widely engaged method for recent storage systems. Cloud storage is an isolated storage service, where users can upload and transfer their data anytime and anywhere. However, it raises problems regarding privacy and data secrecy because all the data are stored in the cloud storage. This is a focus of concern for users, and it affects their disposition to use cloud storage services. On the other hand, a cloud storage server classically performs a particular data de-duplication to remove duplicate data because the storage space is not infinite. Data de-duplication, which makes it possible for data possessors to share a copy of the same data, can be achieved to reduce the hashing time, memory consumption and detection time and accuracy. This study proposes a novel de-duplication MD5, SHA-1 and SHA-2 Hybridization. Due to the above concerns, there is a research on data de-duplication. In this script, we propose a hashing data de-duplication mechanism which makes the cloud storage server be able to abolish duplicate improves the privacy protection.

Index Terms

Computer Science Information Sciences

Keywords

Data De-duplication, MD-5, SHA1 and Enhanced the SHA-2 Algorithm, Cloud computing and security.