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Proceedings of 2016 SAI Computing Conference, SAI 2016
29 August 2016, Article number 7556033, Pages 545-552
2016 SAI Computing Conference, SAI 2016; ExCeL London (CentrEd Conference Center)One Western Gateway, Royal Victoria DockLondon; United Kingdom; 13 July 2016 through 15 July 2016; Category numberCFP16SAA-USB; Code 123531

RFDA : Reliable framework for data administration based on split-merge policy (Conference Paper)

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Abstract

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Emerging technologies in cloud environment have not only increased its use but also posed some severe issues. These issues can cause considerable harm not only to data storage but also to the large amount of data in distributed file structure which are being used in collaborative sharing. The data sharing technique in the cloud is prone to many flaws and is easily attacked. The conventional cryptographic mechanism is not robust enough to provide a secure authentication. In this paper, we overcome this issue with our proposed Reliable Framework for Data Administration (RFDA) using split-merge policy , developed to enhance data security. The proposed RFDA performs splitting of data in a unique manner using 128 AES encryption key. Different slots of the encrypted key are placed in different places of rack servers of different cloud zones. The effectiveness and efficiency of the proposed system are analyzed using comparative analysis from which it is seen that the proposed system has outperformed the existing and conventional security standard. © 2016 IEEE.

SciVal Topic Prominence

Topic: Cloud computing | Clouds | Auditing scheme

Prominence percentile: 98.641

Author keywords

AES encryption | authentication | cloud server | cloud storage | data security

Indexed keywords

Engineering controlled terms: Authentication | Digital storage | Security of data

Engineering uncontrolled terms: AES encryption | Cloud servers | Cloud storages | Collaborative sharing | Comparative analysis | Effectiveness and efficiencies | Emerging technologies | Secure authentications

Engineering main heading: Cryptography

ISBN: 978-146738460-5
Source Type: Conference Proceeding
Original language: English
DOI: 10.1109/SAI.2016.7556033
Document Type: Conference Paper
Sponsors:
Publisher: Institute of Electrical and Electronics Engineers Inc.

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