

A Prototype for Data Integrity in Cloud Environment

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Abstract

Currently in world wide computing (Cloud) has a great impact on life. Everyone can access the all services of cloud if he/she is on different location. Client user can access the cloud services as per their requirement. If one user on cloud, Integrity of data is an important aspect. Data integrity is the upkeep of and the confirmation of the exactness and consistency of, data over its whole life-cycle, and is a basic perspective to the outline, execution and use of any framework which stores, forms, or recovers data. In this research paper, a fitting technique that guarantees the integrity of data and in addition rightness of calculations done by the cloud service provider is introduced.

Integrity is a method for protecting the consistency of the put away data in cloud server and guaranteeing the innovation of the data put away in the cloud server. It implies that the data can be altered just by approved people, along these lines expanding the certification, confirmation and dependability of the cloud service providers.

Keywords: Data Integrity, Authentication, Storage, Data.

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1. Introduction

In this, the integrity of the outsourced data put away in the un-confided in remote cloud servers has been guaranteed. It has been finished by executing a strategy that gains a proof of data ownership by creating metadata of the data in the In this, the integrity of the outsourced data put away in the un-confided in remote cloud servers has been guaranteed. It has been finished by executing a strategy that gains a proof of data ownership by creating metadata of the data in the cloud. This evidence checks that the data put away in the remote cloud server are not changed by unapproved clients, along these lines guaranteeing the data integrity. Along these lines, this verification protocol keeps the remote cloud stockpiling servers and unapproved people from harming, distorting or changing the data without the learning of the data proprietor by directing incessant security minds the data stockpiling. This evidence confirms that the data put away in the

remote cloud server are not adjusted by unapproved clients, accordingly guaranteeing the data integrity. Along these lines, this verification protocol keeps the remote cloud stockpiling servers and unapproved people from harming; distorting or changing the data without the information of the data proprietor by leading regular security minds the data storage.

2. Integrity Checking Methods

2.1 Message Authentication Code (MAC):

To confirm the data integrity, MAC for the whole data is created by the DO before putting away the data record in a remote server. It is held by the DO in the neighborhood stockpiling, however the first data is put away in the remote server. Keeping in mind the end goal to confirm the integrity of the data, the data proprietor recovers the whole data from the remote server, re-figures the MAC

