Abstract

Cloud computing provides services where users can store their data remotely on cloud and can access their data from anywhere, anytime by means of internet. Cloud computing enables users to use the data stored on cloud as if the data is local without worrying about its accuracy and reliability. But a major challenge in cloud computing is to ensure the integrity of user’s outsourced data on cloud server. Public auditing service makes use of an independent third party to check data storage correctness on cloud on behalf of data owner itself. This paper analyzes various techniques employed in order to perform secure cloud auditing to verify the integrity of outsourced data on cloud. Also it discusses limitations associated with these protocols and lastly proposes a scheme to ensure privacy and security in public auditing for cloud storage.

References


Index Terms

Computer Science Information Sciences

Keywords

Cloud computing; Data Integrity; ElGamal algorithm; SHA-256; Third party auditor.