An Efficient Methodology for Storing Sensitive Data using Nested Cloud

Abstract

In the period of revolutionary change in information technology, the two developments that are most far-reaching have been cloud computing and the mobile Internet. These two information technology revolutions diverge in mobile cloud computing. There are already immense risks with data hosted in-house, so it’s no secret that data offsite sits at even higher risk. With Data on offsite, higher avenues for attack and the fact that it will be traveling more makes it easier to be hijacked. With the technology regularly improving, there are ways to make sure of greater security. However with technology regularly improving, there are always people out there lifting their hacking skills.

An effective methodology with prominent features of data integrity and confidentiality is proposed here to ensure the safety of offsite data or the data on cloud. In this paper we propose the mechanism which uses the concepts of ECC algorithm, Shamir’s secret key sharing algorithm along with distinct cryptography tools such as threshold cryptography that enhances...
the security of data stored on clouds.

References


Index Terms

Computer Science

Distributed Systems

Keywords

Cloud, mobile cloud computing, offsite data security, threshold cryptography.