Abstract

In cloud system the data is outsourced on the cloud, this may create security issues. In this paper we propose Division and Replication of Data in Cloud (DRDC) which can take care of security issues without compromising the performance. In this system, file uploaded by the client is first encrypted then divided into fragments. Then these fragments are replicated over the cloud nodes. Fragmentation and replication is carried out in such a way that each node contains only a single fragment. Thus if any one of the node is intruded by hacker, no significant information is revealed, and thus security is maintained. To further increase the security, nodes are separated by T-coloring graph method. Due to the T-coloring, the effort needed by an attacker to breach the security is increased multiple times. In addition to this, in
this paper we compare this system (DRDC) with other methodologies.

References


Index Terms

Computer Science

Distributed Systems
Keywords
Cloud Security  Data Fragmentation  Replication  T-coloring