Comparative Analysis of Dynamic Replication Strategies in Cloud

Abstract

With the emergence of the storage in the cloud, more and more people are moving their data to the cloud. With increased data in the cloud, service providers of cloud face a challenge to ensure maximum data availability and reliability. Data replication is highly employed by commercial large scale cloud storage systems to improve data availability and reliability. In this paper, already existing replication techniques are studied and examined for various parameters like, availability, reliability, storage space consumption, storage cost, bandwidth consumptions, number of replicas, response time. A survey of the different replication strategies is accomplished consolidating the above mentioned parameters. The outcome of such survey will enable the users to determine the replication strategy best suited for their needs.
Comparative Analysis of Dynamic Replication Strategies in Cloud

References

- Wenhao-Li, Yun Yang, Dong-Yuan, "Ensuring Cloud Data Reliability, with minimum replication by proactive replica checking"; 2015 IEEE transactions on computers and Manuscript ID.


Index Terms

Computer Science
Distributed Systems

Keywords

Cloud Computing  Data Availability  Dynamic Replication  Reliability