Abstract

With the emergence of the storage in cloud, more and more people are moving their data to the cloud. With increased data in 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.

References

- Da-wei Sun, Gui-Ran Chang, Shang-Gao, Li-Zong Jin Xing-ei Wang, &quot;Modeling a Dynamic Data Replication, Strategy to increase system availability in cloud computing Environments&quot;; Journal of Computer Science and Technology-Springer, 27(2), 2012, pp. 256-272.
- Wenhao-Li, Yun Yang, Dong-Yuan, &quot;Ensuring Cloud Data Reliability, with minimum replication by proactive replica checking&quot;; 2015 IEEE transactions on computers and Manuscript ID.
- Wenhao-Li, Yun Yan, Dong Yuan, &quot;A Novel Cost Effective Dynamic Data Replication Strategy for Reliability in Cloud Data Centers&quot;;, Ninth IEEE International Conference on Dependable, Autonomic and Secure Computing, Sydney, Australia, December 2011, pp. 496-501.
Analytical Survey of Dynamic Replication Strategies in Cloud

Index Terms
Computer Science
Distributed Systems

Keywords
Cloud Computing  Data Availability  Dynamic Replication  Reliability