A Survey on Datacenter Placement and Replication Approach for Cloud

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Abstract

Cloud computing is a trending technology due to its high availability and services. Cloud provides a platform for the large set of users to put their data and host for their processing requirements. But the main challenge is to provide a reliable storage for the users. To provide reliability cloud uses concept of replication in datacenters. But in case of natural calamity it is critical to save at least one replica of data; which will not be possible if all replicas are made in disaster prone locations. Apart from this network usage, energy consumption and service level agreement (SLA) should also be kept in mind. In this paper a survey is done on intelligent replication techniques which will keep all performance parameters in consideration. There is SLA violation and service can be improved considerably if data placement and replication algorithms are better.

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Index Terms

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Keywords

Cloud, Datacenter, replication, Service level agreement (SLA).