Abstract

Cloud computing is a technology which produces and consumes huge amount of data every day. This makes the cloud to store tons of applications. The demand for these resources is on the rise. Multi cloud environment is used to satisfy these demands. If multiple providers cooperatively work together, the availability of resource can be improved. The replication of data across multiple places in cloud has become an effective solution to achieve good performance in terms of load balancing, response time and availability. Replication of data is a good way to achieve reliability and improve performance in a distributed system. The rising popularity of cloud computing is an alternative to classic information processing systems. This has increased the importance of its correct and continuous operation even in the presence of faulty components. Fault tolerance is a major concern to guarantee availability and reliability of critical services as well as application execution. In order to minimize failure impact on the system and application execution, failures should be anticipated and proactively handled.

References

- Dejene Boru, Dzmitry Kliazovich, Fabrizio Granelli, Pascal Bouvry, and Albert Y.
- C. Engelmann, S. L. Scott, C. Leangsuxun and X. He, "Towards High Availability for High-Performance Computing System Services: Accomplishments and Limitations", This work was done at Oak Ridge National Laboratory and Tennessee Tech University and was partially sponsored by the Laboratory Directed Research and Development Program of Oak Ridge National Laboratory.
- Sushant Goel and Rajkumar Buyya, "Data Replication Strategies in Wide Area Distributed Systems", Grid Computing and Distributed Systems Lab, University of Melbourne, Australia.
Replication: A Technique for Scalability in Cloud Computing


Index Terms

Computer Science  Distributed Systems

Keywords

Cloud  Distributed Systems  Replication  Availability  Fault Tolerance