Abstract

Cloud computing is the result of evolution of on demand service in computing paradigms of large scale distributed computing. It is the adoptable technology as it provides integration of software and resources which are dynamically scalable. These systems are more or less prone to failure. Fault tolerance assesses the ability of a system to respond gracefully to an unexpected hardware or software failure. In order to achieve robustness and dependability in cloud computing, failure should be assessed and handled effectively. This paper aims to provide a better understanding of fault tolerance techniques used for fault tolerance in cloud environments along with some existing model and further compare them on various parameters.

References

Fault Tolerance Techniques and Comparative Implementation in Cloud Computing

- Benjamin Lussier, Alexandre Lampe, Raja Chatila, Jérémie Guiochet, Félix Ingrand, Marc-Olivier Killijian, David Powell, "Fault Tolerance in Autonomous Systems: How and How Much?"; LAAS-CNRS 7 Avenue du Colonel Roche, F-31077 Toulouse Cedex 04, France {firstname.lastname}@laas.fr
- Jean-claude Laprie "Dependable computing and fault tolerance: concepts and terminology"; LAAS-CNRS 7 Avenue du Colonel Roche, 31400 Toulouse, France
- Sheheryar Malik and Fabrice Huet "Adaptive Fault Tolerance in Real Time Cloud Computing"; 2011 IEEE World Congress on Service
- Jayadivya S K, Jaya Nirmala S, Mary Saira Bhanus "Fault Tolerance Workflow Scheduling Based on Replication and Resubmission of Tasks in Cloud Computing"; International Journal on Computer Science and Engineering (IJCSE)

Index Terms

- Computer Science
- Distributed Computing
Keywords
Cloud Computing  Fault Tolerance  Reactive  Proactive  Dependability  Reliability