



# Survey on Novel Load Rebalancing for Distributed File Systems

**Suriya Mary.M<sup>1</sup>, Guru Rani.G<sup>2</sup>**

PG Student<sup>1</sup>, Assistant Professor<sup>2</sup>, Department of CSE  
NPR college of Engineering and Technology, TamilNadu, India  
Email: [suriyamary.mc@gmail.com](mailto:suriyamary.mc@gmail.com); [ranitcguru@gmail.com](mailto:ranitcguru@gmail.com)

***Abstract-*** Distributed file system is simply a classical model of a file system used as the key building blocks for cloud computing applications. In such file systems a file is partitioned into a number of chunks allocated in distinct nodes. Files can be dynamically created, deleted, and appended. This results in load imbalance in a distributed file system; that is, the file chunks are not distributed as uniformly as possible among the nodes. Emerging distributed file systems in production systems strongly depend on a central node for chunk reallocation. In this survey paper, a fully distributed load rebalancing algorithm is presented to overcome the above load imbalance problem. To eliminate the dependence on storage nodes each node performs the load rebalancing algorithm independently without acquiring global knowledge.

***Keywords-*** Load balance; distributed file systems; clouds

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