

Load Balancing in Cloud Computing

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Abstract. Cloud computing enables people to share data and access a variety of resources. Users just pay for the resources that they use. Cloud computing is a method of storing data and distributing resources in a public setting. The amount of data that can be stored grows rapidly in an open setting as a consequence, load balancing is a major difficulty in the cloud. Load balancing allows the dynamic workload to be distributed among multiple nodes. Make certain that no single node is overburdened. It aids in the efficient use of resources. In addition, it improves the system's performance. Load balancing is provided by a number of existing algorithms. and more efficient use of resources In cloud computing, different forms of loads are available. Memory, CPU, and network load are just a few examples. Load balancing is the process of determining which systems are overburdened. Then transferring extra load to other nodes

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References

1. Alonso-Calvo, R., Crespo, J., Garc'ia-Remesal, M., Anguita, A., Maojo, V.: On distributing load in cloud computing: A real application for very-large image datasets. *Procedia Computer Science* **1**(1), 2669–2677 (2010)
2. Bala, A., Chana, I.: A survey of various workflow scheduling algorithms in cloud environment. In: 2nd National Conference on Information and Communication Technology (NCICT). pp. 26–30. sn (2011)
3. Chaczko, Z., Mahadevan, V., Aslanzadeh, S., Mcdermid, C.: Availability and load balancing in cloud computing. In: International Conference on Computer and Software Modeling, Singapore. vol. 14, pp. 134–140. IACSIT Press (2011)
4. Chen, H., Wang, F., Helian, N., Akanmu, G.: User-priority guided min-min scheduling algorithm for load balancing in cloud computing. In: 2013 national conference on parallel computing technologies (PARCOMPTECH). pp. 1–8. IEEE (2013)
5. Kaur, R., Luthra, P.: Load balancing in cloud computing. In: Proceedings of international conference on recent trends in information, telecommunication and computing, ITC. Citeseer (2012)
6. Mell, P., Grance, T., et al.: The nist definition of cloud computing (2011)
7. Moharana, S.S., Ramesh, R.D., Powar, D.: Analysis of load balancers in cloud computing. *International Journal of Computer Science and Engineering* **2**(2), 101–108 (2013)
8. Patel, U., Gupta, M.H.: A review of load balancing technique in cloud computing. *Int. J. Res. Anal. Rev.* **6**(2), 8 (2019)

9. Sahu, Y., Pateriya, R.: Cloud computing overview with load balancing techniques. *International Journal of Computer Applications* **65**(24) (2013)
10. Sran, N., Kaur, N.: Comparative analysis of existing load balancing techniques in cloud computing. *International Journal of Engineering Science Invention* **2**(1), 60–63 (2013)