Abstract

The area of green computing has been emerged as an interesting field of research in this technology oriented world. Even small activities in daily life are dependent upon computer based technologies. This paper proposes a new methodology to provide Certificate Plan for Controlling Electric Pollution on Cloud Data Storage Centers with the purpose to control electric pollution and that provides a healthier and safer environment from different types of hazardous materials and other related computer electronics devices. The motivation towards this work is to improve our environmental conditions and reduce the effect of toxic electronics based materials. The function of new designed methodology actually analyze and measure the amount of carbon footprint by utilizing different instruments and methods that comes out from CRT’S (cathode ray tubes) and radiations emitted through other different parts of computer electronics in the form of hazardous gases (No2, Co2) and hazard metals as like lead, cadmium and mercury. Authors are considering one more important parameter in this paper named as “load balancing”. It describes if the government allotted space will be fulfilled in particular cloud data storage center (CDSC) then rather than implemented a new servers on that particular cloud data storage
center that cloud storage agency may shift their data for storage in nearby any other cloud storage agency after analyzing the free space availability with the permission of government as well as that particular agency owner. This agreement must be signed legally by both the parties before the transfer of data.

References

2. Kernal Sinha and Borthakur Anewesha, Electronic waste management in India”, Jawaharlal Nehru University, India, UCLA Library.
14. Sarvar Muhammad and Somro Rahim Tariq, Green Computing from current to future trends, College of engg and Technology, US.
saving energy by computer virtualization, International Journal of application or innovation in engg and management.


22. Liu Yubao and Chen Chang, January 2013. Green databases through integration of renewable energy, 6th Biennial conf. On innovative data systems research, California, US.


27. Patel Parveen and Maltz A David, the cost of cloud: Research problems in data center networks, Microsoft Redmond, USA.

28. Abawajy Jemal and Beloglazou Anton, Energy efficient management of data center resources for cloud computing: A Vision architectural elements & open challenges, cloud computing & distributed system lab, The University of Melbourne, Australia.


Index Terms

Computer Science

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Keywords

Cloud data storage center, green computing, e-transactions, Certificate plan, internet, and electric pollution, global warming (environment)