

عنوان مقاله:

A Novel Method to Improve the Delay and Performnace of Grid Networks Based on Fuzzy Method

محل انتشار:

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خلاصه مقاله:

Grid data centers take advantage of virtualization technology to share a physical machine (PM)'s resources among multiple virtual machines (VMs). VM placement in grid computing system is a complex task and if cannot be done effectively, it leads to high energy usage and high traffic cost. In this paper, we employ ELECTRE method to design an integrated VM placement algorithm which is called EVMP. In this method the desirability of each PM is calculated according to the weights assigned to the characteristics and the level of weight of each characteristic for the VM which is determined based on fuzzy method. Finally, the best PM is chosen based on its assigned value. To study about the performance of the proposed approach, extensive simulations is carried out in GridSim simulator which show that the proposed method can reduce the number of running PMs and lower the energy consumption and delay compared to .other methods

کلمات کلیدی:

ELECTRE; Fuzzy Method; VM; PM; Grid

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