Abstract

Clouds are a large volume of virtualized resources which are easy to use and access. It is a platform providing dynamic pool resources and virtualization. Based on a pay-as-you-go model, it enables hosting of pervasive applications from consumer, scientific and business domains. Cloud computing is the emerging internet based technology which emphasizes commercial computing. Cloud computing can be classified as a new paradigm for the dynamic provisioning of computing services supported by state-of-art data centers that usually employ virtual machine (VM) technologies for the consolidation and environment isolation purposes [1]. In this work, the comparison between the different cloud computing platforms such as Abicloud, Eucalyptus, XCP, Nimbus, OpenNebula, and Tplatform is presented. The basic principles are outlined of all the above mentioned platforms and the architectural tradeoffs of those platforms are discussed.
Comparison of Various Platforms in Cloud Computing

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Index Terms

Computer Science Distributed Systems

Keywords

Cloud computing, AbiCloud, Eucalyptus, XCP, Nimbus, Open Nebula, Tplatform