



RESEARCH ARTICLE

Virtual Machine-Based Resource Management System for Cloud Computing Services

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Abstract— Cloud computing is the delivery of computing as a service rather than a product, whereby shared resources, software and information are provided to users over the network. Cloud computing providers deliver application via the Internet, which are accessed from web browser, while the business software and data are stored on servers at a remote location. In cloud computing, Resource Allocation (RA) is the process of assigning available resources to the needed cloud applications over the internet. Resource allocation starves services if the allocation is not managed precisely. Resource provisioning solves that problem by allowing the service providers to manage the resources for each individual module. Resource Allocation Strategy (RAS) is all about integrating cloud provider activities for utilizing and allocating scarce resources within the limit of cloud environment so as to meet the needs of the cloud application. This paper presents dynamically allocating resources for cloud computing services using virtual machine.

Keywords— Cloud computing; Green computing; Resource; Skewness; Virtual machine

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