AN EFFICIENT GLOOMING CLOUD SYSTEM TO UTILIZE INFRASTRUCTURE BY SCHEDULING HETEROGENEOUS WORKLOADS

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Abstract— Providing elastic resources to the end users is the basic idea of cloud computing. To the end users, the resources have to be provided based on their requirements. The agreements have been made between the cloud providers and the end users. The problem is that how the resources of cloud infrastructure is being utilized efficiently. There may arise a question how to provide resources to the end users for handling heterogeneous workloads. In order to solve this problem, a system called a Glooming Cloud system is designed for the better utilization of infrastructure of cloud. The resources have to be provided to the on-demand users whenever they send a request to the cloud provider. Jobs can be allocated to the resources from the allocation pool in the cloud, when the resources are idle. If a request has been received from the On-demand user for a resource, the processing HTC user has to be suspended and the corresponding resource has to be allocated to the On-demand user. Our system architecture has two frameworks, namely, service runtime environment and common management service which facilitates building light weight service management layers for heterogeneous workloads and also makes their management tasks simple. In our system, we adopt resource management policies for resource provisioning. The Glooming Cloud system reduces the resource consumption maximally while comparing with the existing systems and enables us to perform scheduling among the available resources and allocate the appropriate resources to the On-demand users and increases the utilization of the cloud infrastructure.

Index Terms—Iaas, elastic resources, glooming cloud