Ant Colony based Cloud VM Allocation and Placement Approach for Resource Management in Cloud

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Abstract

Resource management in cloud is been an attraction of all the researchers in the past few years. The main reason behind that is the complexity of resource management problem is high. Many virtual machines are created on top of physical machines and this allocation is a NP-Hard problem. In this paper a resource allocation mechanism based on ant colony is proposed.

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Index Terms

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Keywords

Cloud Service Provider (CSP), virtual machines (VMs), VM monitor (VMM), SLA (Service Level Agreements), physical machine (PM)