Survey Report

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Survey on cloud computing technologies and security threats

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ABSTRACT

Cloud Computing is one of the emerging technologies in the world. It is a computing technology that provides sharable computing resources like software, platform, storage, applications etc as a service to the customers on demand over the internet. Cloud computing is a Pay-per-Use-On-Demand model that can conveniently access shared IT resources through internet. Its advantages include cost savings, scalability, high availability, resilience, flexibility, efficiency and outsourcing non-core activities. Cloud computing offers an innovative business model for organizations to adopt IT services without upfront investment. Despite the potential gains achieved from the cloud computing, the organizations are slow in accepting it due to security issues and challenges associated with it. Security is one of the major issues which hamper the growth of cloud. In this paper, we aim to pinpoint the Threats and Security Issues of Cloud computing. This paper first discusses about various cloud based services, use of virtualization in Cloud Computing and then the relation of cloud computing with SOA and Grid computing paradigms. Finally it discusses security threats to cloud computing services.

Keywords: Cloud Computing, Service Oriented Architecture, Virtualization, Grid Computing.

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