

A Review on Security Techniques for Protecting Data in Cloud Computing

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Abstract:

A great deal has changed in the cloud industry since 2000 when Peak 10 opened its first data center. The cloud is no longer just an interesting way to reduce IT costs. Today, it is about transforming businesses, gaining extreme competitive advantage, interacting directly with customers in real time, and dozens of other game-changing possibilities. With the increasing number of companies resorting to use resources in the Cloud, there is a necessity for protecting the data of various users using centralized resources. Some major challenges that are being faced by Cloud Computing are to secure, protect and process the data which is the property of the user. This paper explain some traditional approach and advanced approach to secure

Keywords: Cloud, Cloud Computing, Security, Infrastructure as a Service, Platform as a Service, Software as a Service

Introduction: Cloud computing is defined as a type of computing that relies on sharing computing resources rather than having local servers or personal devices to handle applications. Cloud computing is comparable to grid computing, a type of computing where unused processing cycles of all computers in a network are harnesses to solve problems too intensive for any stand-alone machine.

In cloud computing, the word cloud is used as a metaphor for "the Internet," so the phrase cloud computing means "a type of Internet-based computing," where different services such as servers, storage and applications are delivered to an organization's computers and devices through the Internet.

Cloud Computing Models:

1. Infrastructure as a Service (IaaS): Infrastructure as a Service, sometimes abbreviated as IaaS, contains the basic building blocks for cloud IT and typically provide access to networking features, computers (virtual or on dedicated hardware), and data storage space. Infrastructure as a Service provides you with the highest level of flexibility and management control over your IT