International Journal of Computer Science Engineering and Information Technology Research (IJCSEITR)
ISSN(P): 2249-6831; ISSN(E): 2249-7943
Vol. 4, Issue 2, Apr 2014, 205-212

STUDY AND COMPARISON OF CRYPTOGRAPHIC METHODS FOR CLOUD SECURITY

ASHWINI BANGAR & SWAPNIL SHINDE

Department of Information Technology, RAIT, Nerul, Mumbai, Maharashtra, India

ABSTRACT

Cloud Computing is an emerging technology widely used in the IT sector due its wide range of characteristics. These characteristics serve a medium for the intruders to attack the cloud and its users. The security of cloud can be compromised by employing different strategies and techniques. Many systems and techniques have been proposed for solving the security issues and implementing a high level of security on both the sides. Encryption is one of the best method suggested for making the cloud more secure and increasing its areas of application. This paper contains an overall study and comparison of various cryptographic algorithms implemented for cloud security. We also study some hybrid systems designed using combination of various crypto terminologies for enhancing data security in cloud. The hybrid systems implement multiple cryptographic algorithms like RSA and Digital signature, Diffie Hellman and AES in combination with Digital signature. Some of the comparison parameters included are technique proposed, type of algorithm, algorithm, scalability.

KEYWORDS: AES, DES, Diffie Hellman, Digital Signature, Encryption