Computing applications and data are growing so rapidly that increasingly larger servers and data centre are needed for fast processing within the required time. A fundamental shift in the way Information Technology (IT) and computing services are being delivered and purchased results in the development of cloud computing. The out of control cost of power in terms of electricity generation, personnel hardware and limited spaces in data centers have encouraged a significant number of enterprises to move more infrastructures into a third party provided Cloud. However, Cloud computing requires that organizations trust that a service provider’s platforms are secured and provide a sufficient level of integrity for the
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client’s data. Elliptical curve cryptography (ECC) is a public key encryption technique based on elliptic curve theory that can be used to create faster, smaller, and more efficient cryptographic keys. An important factor is the key strength, i.e. the difficulty in breaking the key and retrieving the plain text. In this paper, we proposed Elliptic Curve Cryptography scheme as a secure tool to model a Secured platform for the Cloud Application.

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Index Terms

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