Abstract

Cloud computing has great prospective of benefitting rigorous computational supremacy to the civilization society at reduced price. It facilitates consumers amid restricted computational assets to subcontract their bulky computational work assignments to the cloud, and cost-effectively have the benefit of the immense computational supremacy, bandwidth, storage, and even suitable software that can be pooled in a pay-per-use manner. Regardless of the tremendous acceptance, security and privacy is the primary and major hindrance that stops the broad acceptance of this endowed computing sculpt, particularly for consumers whilst their private data or information are possessed and produced during the computation. Delighting the cloud since an inherently timid insecure computing stage from the perspective of the cloud consumers, in this work we devise cloud computing life cycle model to facilitate not only to defend confidential information by permitting computations with encrypted records, but also
shield consumers from malevolent performances by permitting the validation of the computational outcome. Such a scheme of broad-spectrum of protected computational subcontracting lately shown to be viable in hypothesis, but to devise method to facilitate practically efficient also remains as an extremely challenging task. Focusing on engineering and computing approach for minimization tasks, this paper proposes widely applicable method through proper design of the secure model for implementing the security measures in the cloud life cycle model using the software engineering approach.

References

- CSA- Reference Doc
- NIST definition of cloud computing.
- Hyper Text Transmission Protocol: Communication Technology Proceedings-2003. by Xiaoli Yu; Jianping Wu; Xia Yin; Dept. of Computer Tsinghua Univ., Beijing, China
- Hyper text transmission protocol with security: A Performance Analysis of Secure HTTP Protocol by Xubin He, Member, IEEE.
- "Cloud Security a comprehensive guide to secure cloud computing"; Ronald L Krutz and Russell Dean vines, Wiley India.
- Cloud computing second edition Dr. Kumar Saurabh Wiley India.
- Wikipedia "Secure_Hypertext_Transfer_Protocol"
- [Cloud Computing] BMC Cloud Lifecycle Management: Managing Cloud Services from Request to Retirement | BMC Communities Blog.
- Man in the middle attack Moxie Marlinspike (2009).
- blogs.
- sap:"innovation/cloud-computing/top-9-challenges-in-cloud-computing-that-are-slowing-its-adoption-011918".
- "Virtualization Technologies and Techniques in Education Learning Applications"; Dinesha H A, Dr. V. K Agrawal, International Conference on e-Education and e-Learning ICEEEEL, held at World Academy of Science, Engineerin and Technology,

PARIS-FRANCE on November 14-16, 2011, 984-991.
- wikipedia, "Cloud_computing_security".

**Index Terms**

- Computer Science
- Software Engineering

**Keywords**

- Cloud computing
- Security
- Privacy
- Cloud life cycle
- Services