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.

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**Index Terms**

Computer Science

Software Engineering

**Keywords**

Cloud computing  Security  Privacy  Cloud life cycle  Services