Mobile Cloud Computing

Evaluation of CurrentSecurity Solutions

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Declaration

I, **Khan Muhammad** hereby certify that the ideas, experimental work, results and conclusions set out in this thesis are entirely my own effort, except where otherwise indicated and acknowledged. I further certify that the work is original and has not been previously submitted for assessment in any other course or institution, except where specifically stated.

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Dedication

To My Parents & Family

ABSTRACT

Cloud computing is making space widely in technology due to which data can be accessed easily anytime and everywhere in the world. Mobile devices have a rich user experience, particularly smartphones. The latest inn-trend technologies, especially in the mobile cloud world are Apple, Google, Facebook and Amazon that's why mobile cloud computing technology is expanding speedily. Blisteringgrowthin mobile cloud area is interpolating the red-hot security risks at the same time. In mobile cloud computing, a lot of work has been accomplish to remove the security issues that makes reliable and secure cloud application. Growing technology of mobile devices, including smartphone and tablets have malicious kind of threats because at the same time parallel malicious web-based attack continuing their population to rise in numbers to make these cloud applications more complicated and vulnerable. Data security is more censorious in the mobile cloud computing. Security has become a major issue in mobile cloud computing. This research aims to provide a solution for mobile cloud security. Security can be achieved by implementing the encryption that allows computations to be done on cipher text that creates an encrypted text from a plain text and applyingdecryption operation producessame result. Data can be retrieved between cloud storage and smart devices by applying six level encryption without any support of third party applications. Secure way to encode and decode text by using level 6 encryption. The six level encryption technique will be used to encode and decode text with the help of JavaScript interpreted by browser at client side.Encryption Level six can be applied or can be executed remotely on cloud storage to reserve device resources. The second solution is a new security model, a service like an intrusion detection system that can be used to put into the cloud that saves the device memory and CPU usage which helps to save the battery of the devices.

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