

Enhanced Authentication Method for Cryptography Based Communication System

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Abstract: Keystroke-dynamics based authentication is a simple biometric mechanism that has been proven accurate in distinguishing individuals. We design and implement a simple and easy to-adopt protocol for authenticating a computer owner that utilizes the user's keyboard activities as an authentication metric. Keystroke verification techniques can be classified as either static or continuous. At specific times, for example, during the login sequence. simple passwords, but do not provide continuous security they cannot detect a substitution of the user after the initial verification. Continuous verification, on the contrary, monitors the user's typing behavior throughout the course of the interaction. In this project, we can design the system for mail application to register their details such as user name and password. At the time of password typing, time is calculated for typing whole password and also calculates the time for typing each and every letter in password. So hackers are difficult to extract details. Also propose AES encryption method for end to end mail encryption process. Also implement OTP verification for accessing shared email it helps to further improve our chances of detecting leakage and identifying the guilty party. In a perfect world there would be no need to hand over sensitive data to agents that may unknowingly or maliciously leak it. And even if we had to hand over sensitive data, in proposed work implement secret key sharing method. Key will be verified before accessing the shared mail information. This will avoid the unwanted and malicious access of email data.

Keywords: Keystroke Verification , Biometric Mechanism, Hackers, Encryption and Decryption, Security.

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