Enhance Security Methods for Identifying Users without their Login Ids

Abstract

Authentication to a computer system is divided into two mechanisms, identification and verification. For identification, login IDs have been used, and for verification, passwords can be used. The existing password-based system can be augmented by strengthening the identification process. Instead of a login ID, identification processes utilize personal secret data to identify a user uniquely. The identification process asks the user to choose a correct login ID among multiple choices of partially obscured IDs. Since, identification processes do not accept login IDs during the authentication process. For gaining access to the computing system, a stolen or cracked password cannot be used, unless a correct identification material is provided by the attacker. Hence, in this paper, the three-step verification process is provided to enhance the security. The security will be provided using user authentication and device authentication by an authentication method.

Index Terms

Computer Science           Information Sciences

Keywords

Cybersecurity, Authentication, Identification, Password.