Abstract

Authentication to a computer system is divided into two mechanisms, identification and verification. For identification the login IDs have been used and for verification password can be used. The existing password based system can be augmented by strengthening the identification process. Instead of a login ID identification process utilizes 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 process does not accept a login ID during the authentication process. For gaining an access to the computing system a stolen or cracked password cannot be used, unless a correct identification material is provided by 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 methods.

References

Index Terms

Computer Science
Information Sciences

Keywords

Cybersecurity, Authentication, Identification, Password.