

Abstract

Authentication mechanism consists of object-based authentication, id based authentication and knowledge-based authentication. The authentication of the three models most commonly used is the password based authentication. Password-based authentication mechanism consists of a text-based password and image-based passwords.

Text based password method presented by the authors seek new forms compared to previous research methods, based on the resources in the form of knowledge of the social environment in an organization. Excavation through Knowledge Database Discovery and further processed into a new form that is capable of performing authentication.

40 participants experiment result showed that the Usability test successfully perform the authentication for internal and external organizational entity. The author also test bruteforce attacks and SQL Injection which indicates that the password offered can prevent these attacks.

Keyword : Knowledge Based Authentication, Text Based Password, Knowledge Database Discovery



Abstrak

Mekanisme authentication terdiri dari object based authentication, id based authentication dan knowledge based authentication. Dari ketiga model authentication tersebut yang paling sering digunakan adalah password based authentication. Mekanisme password based authentication terdiri dari text based password dan image based password.

Metode text based password yang diketengahkan oleh penulis berupaya mencari bentuk baru dibandingkan metode penelitian sebelumnya, berdasarkan sumber daya berupa pengetahuan tentang lingkungan sosial dalam suatu organisasi. Penggalan melalui Knowledge Database Discovery dan selanjutnya diolah menjadi bentuk baru yang mampu melakukan authentication.

Hasil penelitian terhadap 40 partisipan menunjukkan bahwa uji Usability berhasil melakukan authentication terhadap entity internal dan eksternal organisasi. Selain itu dilakukan juga uji serangan berupa serangan bruteforce dan SQL Injection yang menunjukkan bahwa metode yang ditawarkan mampu menangkal serangan-serangan tersebut.

Keyword : Knowledge Based Authentication, Text Based Password, Knowledge Database Discovery

