A Graphical Password Authentication System

Ahmad Almulhem
Computer Engineering Department
King Fahd University of Petroleum and Minerals
Dhahran, Saudi Arabia
ahmadsm@kfupm.edu.sa

Abstract

Graphical passwords provide a promising alternative to traditional alphanumeric passwords. They are attractive since people usually remember pictures better than words. In this extended abstract, we propose a simple graphical password authentication system. We describe its operation with some examples, and highlight important aspects of the system.

1 Introduction

User authentication is a fundamental component in most computer security contexts. It provides the basis for access control and user accountability [1]. While there are various types of user authentication systems, alphanumerical username/passwords are the most common type of user authentication. They are versatile and easy to implement and use.

Alphanumerical passwords are required to satisfy two contradictory requirements. They have to be easily remembered by a user, while they have to be hard to guess by impostor [2]. Users are known to choose easily guessable and/or short text passwords, which are an easy target of dictionary and brute-forced attacks [3, 4, 5]. Enforcing a strong password policy sometimes leads to an opposite effect, as a user may resort to write his or her difficult-to-remember passwords on sticky notes exposing them to direct theft.

In the literature, several techniques have been proposed to reduce the limitations of alphanumerical password. One proposed solution is to use an easy to remember long phrases (passphrase) rather than a single word [6]. Another proposed solution is to use graphical passwords, in which graphics (images) are used instead of alphanumerical passwords [7]. This can be achieved by asking the user to select regions from an image rather than typing characters as in alphanumeric password approaches.

In this extended abstract, we propose a graphical password authentication system. The system combines graphical and text-based passwords trying to achieve the best of both worlds. In section 2, we provide a brief review of graphical passwords. Then, the proposed system is described in section 3. In section 4, we briefly discuss implementation and highlight some aspects about the proposed system.

2 Graphical Passwords

Graphical passwords refer to using pictures (also drawings) as passwords. In theory, graphical passwords are easier to remember, since humans remember pictures better than words [8]. Also, they should be more resistant to brute-force attacks, since the search space is practically infinite.

In general, graphical passwords techniques are classified into two main categories: recognition-based and recall-based graphical techniques [7]. In recognition-based techniques, a user is authenticated by challenging him/her to identify one or more images he or she chooses during the registration stage. In recall-based techniques, a user is asked to reproduce something that he or she created or selected earlier during the registration stage.

Passfaces is a recognition-based technique, where a user is authenticated by challenging him/her into recognizing human faces [9]. An early recall-based graphical password approach was introduced by Greg Blonder in 1996 [10]. In this approach, a user create a password by clicking on several locations on an image. During authentication, the user must click on those locations. PassPoints builds on Blonders idea, and overcomes some of the limitations of his scheme [2]. Several other approaches have been surveyed in the following paper [7].

3 Proposed System

The proposed authentication system works as follows. At the time of registration, a user creates a graphical pass-

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performance evaluation of a lightweight resource reservation protocol for mobile Internet hosts optimizing thin clients for wireless active media applications and using CORBA applications in nomadic environments No subject index Annotation copyrighted by Book News Inc Portland OR   **Behavioral Biometrics** Kenneth Revett,2008-11-03 With the advent of the internet as a medium for performing business transactions the need for a secure communication channel has never been more paramount The study of behavioral biometrics the verification and or identification of individuals based on the way they provide information to an authentication system originated from the need for a small footprint versatile alternative to expensive hardware based or physiological biometrics As an emerging alternative to these traditional and more well known physiological biometrics such as fingerprinting or iris scans behavorial biometrics can offer state of the art solutions to identity management requirements as either a stand alone system or part of a multi biometric security system Whilst there are many existing texts that focus on physiological biometrics or algorithmic approaches deployed in biometrics Behavioral Biometrics addresses a gap in the existing literature for a text that is solely dedicated to the topic of behavioral biometrics The author presents a thorough analysis of the latest research into well known techniques such as signature verification and voice recognition as well more recently developed and ground breaking techniques including keyboard mouse dynamics gait analysis odour analysis and salinity testing which are ever increasing in reliability discusses exciting future trends that focus on the brain computer interface using EEG technology and may one day enable human machine interaction via brainwave patterns describes the central applications for the technology within e commerce and related industries and provides a number of comprehensive case studies of major implementations that provide the user with a strong sense of the approaches employed in the various subdomains of behavioral biometrics provides a comprehensive glossary of terms as well as a rich set of references and websites that enable the reader to explore and augment topics as required Behavioral Biometrics will appeal to graduate and postgraduate students as well as researchers wishing to explore this fascinating research topic in areas of biometrics and computer science including classification algorithms pattern recognition artificial intelligence security and digital forensics In addition it will serve as a reference for system integrators CIOs and related professionals who are charged with implementing security features at their organization   **Proceedings of the 10th ACM Conference on Computer and Communications Security** Vijay Atluri,Peng Liu,2003   *1997 IEEE International Conference on Acoustics, Speech, and Signal Processing* ,1997   **IEEE Circuits & Devices** ,1998   **Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Conference,2003   Proceedings of the 8th ACM Conference on Computer and Communications Security Pierangela Samarati,2001   *ACM Conference on Computer and Communications Security* ,2001   Phishing and Countermeasures Markus Jakobsson,Steven Myers,2007 Phishing and Counter Measures discusses how and why phishing is a threat and presents effective countermeasures Showing you how phishing attacks have been mounting over the years how

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