Keylogging-resistant Visual Authentication Protocols

ABSTRACT:

The design of secure authentication protocols is quite challenging, considering that various kinds of root kits reside in PCs (Personal Computers) to observe user’s behavior and to make PCs un-trusted devices. Involving human in authentication protocols, while promising, is not easy because of their limited capability of computation and memorization. Therefore, relying on users to enhance security necessarily degrades the usability. On the other hand, relaxing assumptions and rigorous security design to improve the user experience can lead to security breaches that can harm the users’ trust. In this project, we demonstrate how careful visualization design can enhance not only the security but also the usability of authentication. To that end, we propose two visual authentication protocols: one is a one-time-password protocol, and the other is a password-based authentication protocol. Through rigorous analysis, we verify that our protocols are immune to many of the challenging authentication attacks applicable in the literature. Furthermore, using an extensive case study on a prototype of our protocols, we highlight the potential of our approach for real-world deployment: we were able to achieve a high level of usability while satisfying stringent security requirements.
EXISTING SYSTEM:

The design of secure authentication protocols is quite challenging, considering that various kinds of root kits reside in PCs (Personal Computers) to observe user’s behavior and to make PCs untrusted devices. Involving human in authentication protocols, while promising, is not easy because of their limited capability of computation and memorization. Therefore, relying on users to enhance security necessarily degrades the usability. On the other hand, relaxing assumptions and rigorous security design to improve the user experience can lead to security breaches that can harm the users’ trust.

PROBLEM DEFINITION:

1. It is non-Security for Stored data.

PROPOSED SYSTEM:

In this Project, we demonstrate how careful visualization design can enhance not only the security but also the usability of authentication. To that end, we propose two visual authentication protocols: one is a one-time-password protocol, and the other is a password-based authentication protocol. Through rigorous analysis, we verify that our protocols are immune to many of the challenging authentication attacks applicable in the literature. Furthermore, using an extensive case study on a prototype of our protocols, we highlight the potential of our
approach for real-world deployment: we were able to achieve a high level of usability while satisfying stringent security requirements.

ADVANTAGES:

1. It Support reasonable Image security and usability and appears to fit well with some practical applications for improving online security.

HARDWARE REQUIREMENTS:

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS:

- Application Server : Tomcat5.0/6.X
- Front End : HTML, Java, Jsp
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- Scripts : JavaScript.
- Server side Script : Java Server Pages.
- Database : Mysql 5.0
- Database Connectivity : JDBC.