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FAST DETECTION OF TRANSFORMED DATA LEAKS

ABSTRACT

The leak of sensitive data on computer systems poses a serious threat to organizational security. Statistics show that the lack of proper encryption on files and communications due to human errors is one of the leading causes of data loss. Organizations need tools to identify the exposure of sensitive data by screening the content in storage and transmission, i.e., to detect sensitive information being stored or transmitted in the clear. However, detecting the exposure of sensitive information is challenging due to data transformation in the content. Transformations (such as insertion and deletion) result in highly unpredictable leak patterns. In this paper, we utilize sequence alignment techniques for detecting complex data-leak patterns. Our algorithm is designed for detecting long and inexact sensitive data patterns. This detection is paired with a comparable sampling algorithm, which allows one to compare the similarity of two separately sampled sequences. Our system achieves good detection accuracy in recognizing transformed leaks. We implement a parallelized version of our algorithms in graphics processing unit that achieves

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high analysis throughput. We demonstrate the high multithreading scalability of our data leak detection method required by a sizable organization.

EXISTING SYSTEM:

REPORTS show that the number of leaked sensitive data records has grown 10 times in the last 4 years, and it reached a record high of 1.1 billion in 2014. A significant portion of the data leak incidents are due to human errors, for example, a lost or stolen laptop containing unencrypted sensitive files, or transmitting sensitive data without using end-to-end encryption such as PGP. A recent Kasper sky Lab survey shows that accidental leak by staff is the leading cause for internal data leaks in corporate. The data-leak risks posed by accidents exceed the risks posed by vulnerable software. In order to minimize the exposure of sensitive data and documents, an organization needs to prevent clear text sensitive data from appearing in the storage or communication. A screening tool can be deployed to scan computer file systems, server storage, and inspect outbound network traffic.

DISADVANTAGES OF EXISTING SYSTEM :

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- Directly applying automata-based string matching to data leak detection is inappropriate and inefficient, because automata are not designed to support unpredictable and arbitrary pattern variations.
- In data leak detection scenarios, the transformation of leaked data (in the description of regular expression) is unknown to the detection method.
- Creating comprehensive automata models covering all possible variations of a pattern is infeasible, which leads to $O(2^n)$ space complexity (for deterministic finite automata) or $O(2^n)$ time complexity (for nondeterministic finite automata) where n is the number of automaton states.
- Therefore, automata approaches cannot be used for detecting long and transformed data leaks.

PROPOSED SYSTEM:

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In this paper, we utilize sequence alignment techniques for detecting complex data-leak patterns. Our algorithm is designed for detecting long and inexact sensitive data patterns. This detection is paired with a comparable sampling algorithm, which allows one to compare the similarity of two separately sampled sequences. Our system achieves good detection accuracy in recognizing transformed leaks. We implement a parallelized version of our algorithms in graphics processing unit that achieves high analysis throughput. We demonstrate the high multithreading scalability of our data leak detection method required by a sizable organization.

ADVANTAGE OF PROPOSED SYSTEM:

- In security literature, NetDialign based on the well-known Dialign algorithms is proposed for network privacy .
- It performs differential testing among multiple traffic flows. Kreibich and Crow croft presented an alignment algorithm for traffic intrusion detection systems such as Bro.
- It is a variant of Jacobson-Vo alignment that calculates the longest common subsequence with the minimum number of gaps.

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- Researchers reported the use of dynamic programming for computing the similarity of network behaviors and presented a technique to handle behavioral sequences with differing sampling rates.
- Therefore, it helps to ensure our design goal that the key updates are as transparent as possible for the client. In the designed SysSetup algorithm, the TPA only holds an initial encrypted secret key and the client holds a decryption key which is used to decrypt the encrypted secret key.
- In the designed KeyUpdate algorithm, homomorphic property makes the secret key able to be updated under encrypted state and makes verifying the encrypted secret key possible.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Sony.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS

- Operating system : Windows 7.
- Coding Language : ASP.Net with C#
- Data Base : SQL Server 2005.

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