

M-SCORE: A MISUSEABILITY WEIGHT MEASURE

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ABSTRACT

Data leakage is a leakage which the information's were leaked out unknowingly. Especially company has partnership with other companies that need to share the information's together. A distributor has a set of given sensitive data to hypothetical trusted third party agents. While sharing the transactions data leakage may occur at any place. Preventing the data leakage is a serious challenge for organizations. In an effort to determine the extent of damage to an organization that a user can cause using the information she has obtained. We introduce the concept of misuseability Weight. A misuseability weight measure, calculates a score that represents the sensitivity level of the data exposed to the user and by that predicts the ability of the user to maliciously exploit the data. By assigning a score that represents the sensitivity level of the data that a user is exposed to, the misuseability weight can determine the extent of damage to the organization if the data is misused.

KEYWORDS: Data Leakage, Data Misuse, Security Measures, Misuseability Weight