Abstract

The first list of Jan 2018 is one of the longest lists, with a count of 7,073,069 cases, which include Cyber attacks & ransom ware, Data breaches, financial information, and others. Security and risk management leaders should use data masking to desensitize or protect sensitive data and address the changing threat and compliance landscape. Masking is a philosophy or new way of thinking about safeguarding sensitive data in such a way that accessible and usable data is still available for non-production environment. In this research paper authors proposed a dynamic data masking model to protect sensitive data using non-deterministic random replacement algorithm. This paper contains comparative analysis of proposed model with existing masking methods and result shows that proposed model is would be superior in terms of sensitive data discovery, dynamic data masking and data security.

References

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Index Terms

Computer Science Algorithms
A Robust Approach to Secure Structured Sensitive Data using Non-Deterministic Random Replacement Algorithm

Keywords