Abstract

In recent years the rapid growth of Internet, IOT and Cloud Computing has led to voluminous data in almost every organization, academics and business area. Big data has rapidly developed into a hot topic that attracts extensive attention from such area around the world. Maintaining the privacy and security of Big Data is a very critical issue. The 5V characteristics of big data (Volume, Variety, Velocity, Value and Veracity) alleviate the standard of security required for it. In this research paper, we have emphasized several Big Data security and privacy issues and challenges released by CSA (Cloud Security Alliance) that need to be addressed to make data processing and computing infrastructure more secure as well as possible solutions to address such challenges. This paper also gives insights on overview of big data privacy preserving K-Anonymity technique which aims to protect against leakage of individual’s identity and sensitive information before releasing the dataset during analysis. Finally, this paper overviews big data security solution application and their features provided by the top companies.
References

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Index Terms

Computer Science  Security
Keywords

Big data 5V Characteristics, Security, Privacy, CSA, K-Anonymity