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In this article the author picked up the concept of the data Security which he thinks is the most critical part for the organizations to maintain. He also acknowledged various recent advances such as sensor systems, IOT, cloud computing, and data analytics that effectively collect data.The author described different technological advances and novel applications, such as sensors, data analytics, cloud systems that process huge amounts of data referred to Big Data. Also, the author referred combination of big data and IOT technologies as PBD technologies which he thinks will push a novel generation of data intensive applications**.**

As the reliance on these PBD technology increases, the security and privacy of data managed by PBD systems become crucial. Hence the author stressed about the data privacy and security concepts by initially defining the basic data security requirements

He identified 3 basic requirements which are crucial.

1. Confidentiality
2. Integrity
3. Availability

Also, to discuss the privacy and security issues for big data management, he defined 4 characteristics

1. Volume
2. Variety
3. Velocity
4. Huge number of data resources

He also addressed big data confidentiality and privacy in a detailed way as he noticed that the confidentiality is the critical requirement for data privacy. Finally, he addressed IOT risks and IOT data security which requires extending engineering existing security solutions as well as to develop new solutions. In conclusion, the author addressed today and tomorrow challenges in data security and privacy require multidisciplinary research drawing from different areas like computer science and engineering, political and social sciences.