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The CIA Triad

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Introduction

The term CIA stands for confidentiality, integrity and availability. The three principles form the basis of the organization security structure. The CIA is the basic of all the security structure of a company in that in case there is occurrences of cyber security issues such as, when a network is hijacked, attack of a website or an account or when the company data has leaked to the outsiders, then it is an indication that one of the major security components of CIA has been attacked. Below are the foundations of the CIA and how they operate.

Confidentiality

This refers to the ability of the organization to keep the organization information a secret. The principle deals with increasing the privacy of the organization information. The principle allows only the authorized personnel to access the information (Qadir & Quadri, 2016). The principle works in the ecommerce department by ensuring security if their data such as the customer pin and identification numbers.

Integrity

This refers to the quality of commodity or a service. In IT field, integrity involves use of security measures to ensure the safety of the company's information. Integrity focuses on issues like, the correctness of the information, reliability of the data presented and the trustworthiness of the information (Warkentin & Orgeron, 2020). This principle is applied in the organization by ensuring that there is sufficient protection for the data during transportation. This principle also extends even to the storage of data.

Availability

Availability refers to the effective running of the network, application and systems .This principle ensures that systems are running in a timely and a reliable way to allow the users to access them with ease.

References

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- Qadir, S., & Quadri, S. M. K. (2016). Information availability: An insight into the most important attribute of information security. *Journal of Information Security*, 7(3), 185-194.

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