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CIA Triad Write Up

BLUF

The CIA triad is the foundation of cybersecurity that protects information using authentication and authorization strategies. Authentication can be defined as a confirmation of a person and their characteristics while authorization is the access and rights to a certain things.

Introduction

The CIA triad, also known as Confidentiality, Integrity, and Availability, provides support for the structure and protection of sensitive data from unauthorized threats. According to Chai, while doing so, they follow strict policies, maintaining and performing things behind the scenes to build the trust of organizations while helping those who are authorized to use the sensitive data (Chai, 2022).

Authentication and Authorization

While the two may seem the same, they have different meanings when considering the use of privacy and security. After reading the Geek article, Authentication can best be described as the verification process of a user or system to ensure it is the claimed identity (Geek, 2025). On the other hand, the Fortinet article suggests that Authorization is the level of verification that a user has in a system (Fortinet). In essence,

authentication can be defined as the verification of identity, while authorization is the verification within a system.

Example

An example of authentication can seen all around sensitive information. For example, authentication can be a simple username or password, while another form may be solving a puzzle to prove you are human. An example of authorization can be seen as what a person can do in the system. For instance, a student checking their grades or a person being allowed access to edit another students doc.

Conclusion

In conclusion, the CIA Triad uses Authentication and Authorization strategies to maintain a high level of security all around organizations. While maintaining the trust of systems and people, CIA acts as glue to hold the relationship between people and systems.

References.

Wesley Chai 2022- 📄 **What is the CIA Triad_ Definition, Explanation, Examples - Tec…**

Geek 2025 -

https://www.geeksforgeeks.org/computer-networks/difference-between-authentication-and-authorization/

Fortinet -

https://www.fortinet.com/resources/cyberglossary/authentication-vs-authorization